Companies Simplify Data Privacy Notices

P&G. Microsoft are in forefront of move to make Web site disclosures more user-friendly

BY JAIKUMAN VIJAYAN A European Union initiative to develop standards for shorter and more readable data-privacy notices on Web sites is shining a spotlight on a similar need in the U.S., and large companies such as Microsoft Corp. and The Procter & Gam

ble Co. are already adopting the condensed format On its corporate Web site. P&G has created a

highlights" page that uses a modular formst identical to the one approved by an EU panel in late November. The modular approach

site visitors with carsule descriptions of their privacy policies as the initial step in the disclosure process. Sandy Hughes, P&G's global privacy executive, said last

week that the Cincinnatibased maker of consumer goods set up the new page after a survey of users who visited the Web site showed that 95% of them found shorter data privacy notices beloful. The information on the

Users Lobby for OneWorld

Oracle pressed for continued support of LD, Edwards apps

BY MARC L. BONGINI Several PeopleSoft users List work unsed Oracle Corp. to extend support for the One-World XF line of applications developed by the former 1D. Edwards & Co.

Prior to its acquisition by Oracle, which was completed on Friday, PeopleSoft Inc. had cond it would halt comport for OneWorld XE on Feb. 28. Oracle officials declined to discuss the request for contin-Privacy, page 14 ued support last week-Since Oracle gained a

majority of PeopleSoft shares Last month (QuickLink 51518). its executives have been quietly meeting to decide how to execute the merger and handie customer petitions.

A half-dozen users intercould gain goodwill with customers by granting some wish-list requests. In particu lar, five users ursed Oracle to extend support for OneWorld XF, which is now part of the

PropleSoft EnterpriseOne suite, beyond next month

"This would be a first good step, showing the old LD. Edwards sade of

For more or QuickLink the house Oracle does One World, page 47

Bungled ERP Installation Whacks Asyst

Flaws at Japan venture cause financial fallout

BY MARC L. SONGINI A troubled ERP installation at

a joint venture in Japan has forced Asyst Technologies Inc. to restate earnings and spend up to \$2 million for damage control. The semiconductor automation products maker

also faces a possible delisting from the Nasdae Stock Market. The ERP problems came to light when Fremont, Califbased Asyst announced its fiscal second-quarter results on Dec. 20, seven weeks later

Company spokesman John Swenson said the delay was largely the result of a bungled Asyst, page 47

ADDITIONAL COVERAGE

than planned.





Make a name for yourself with Windows Server System.

Windows Server System

Microsoft

Your potential. Our passion."

"Instead of putting out fires, we now focus on ways we can deploy new technologies that benefit our customer service."

Dave Chacon

Manager, Technical Services, PING

Microsoft Windows Server System makes it easier for golf club maker PING to manage the infrastructure serving their 400 end users. Here's how: By using Windows Server 2003 with Active Directory," PING now centrally manages all its servers, desktops. and end users from one location. This cut annual administrative time by 800 hours. Time that can now be spent developing new ways to support customers, partners, and employees. Software that's easier to manage is software that helps you do more with less. Get the full PING story at microsoft.com/wssystem

Windows Server Sestern" includes

Server OS

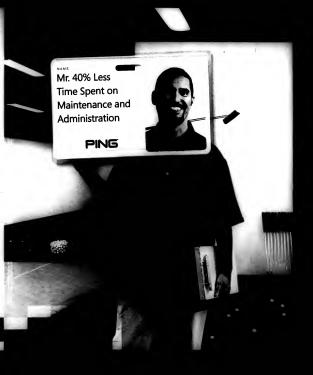
Cowations inhastructure Seriems Management Server Operations Manager

Windows Server Internet Security & Acceleration Server Windows' Storage Server Application Infrastructure SQL Server

Bolok Server Commerce Server

Hest Integration Server

Content Management Server Office SharePoint" Portal Server Office Live Communications Server



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ONLINE



Snapshots Undo Virus Damage

STORAGE: A county sheriff's office in Mansachusetts nabs the right data-protection technology. © Quicklist 51720

Collective Amnesia

DEVELOPMENT: Columnist Linda Hayes wor ders if the demotion of process and quality is a mistake each generation must make in order to learn how to do things right. © Outed his 58448

Become a 'Passive Job Seeker' CAREERS: Even if you're happy in your current job, anticipating future opportunities can open doors for you later, says Kom/ Ferry's Robert Fong. © Quicklish \$1437

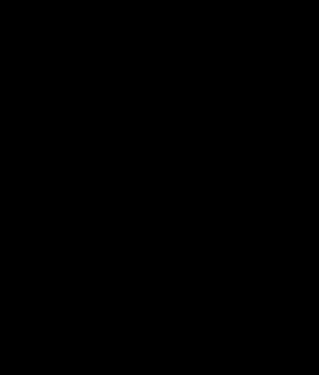
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searchers are studying e-mail traffic patterns to uncover hidden communities of experts that can be tapped to make smarter decisions and more accurate business predictions. Page 28



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Leading Change

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Shork Tank

How will the recent snote of IT for mergers affect users?

(C) Take this week's QuickPoll at www.com

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BM Purchases

CIA-hacked Firm BM last week acquired Syste

Las Vegas-based maker of identity resolution technology. IBM will integrate SRD's software into its ent products. SRO's backing includes the venture arm of the CIA (QuickLink 20015). SRO software is used in retail theft less prevention and emplo

McData to Add 256-Port Switch

McData Corp. this month plane to e a new director-ci sh that will feature 256 per ost contained in a sing unified box, sources said. Mc-Data's I-10K switch is the result of its \$102 million acquisition in 03 of Sanora Systems Inc., th provided the high-end

Mozilla, Firefox Flaws Revealed

Jeers of the open-source Me and Firefox browsers and the nderbird e-mail client may be serable to flows that could allow on aftacker to apy on or take over a system. The most serious bug affects all versions of Mozil earlier than 1.7.5 and could result in a system crash or the executio of malicious code, security ex-certs said last week. Firefer, and underbird face less-serious

Business Objects Gets Day in Court

A federal appeals court ruled late last week that a trial can be held nine whether Microfit gy Inc. infringed a Business Objects SA patent on a rela database access system. The deci-sion by the U.S. Court of Appeals for the Federal

AT DEADLINE | Microsoft Gives Users **More Security Options**

my inherited when it acquired

Romanian antivirus software

developer GeCAD Software

give IT security managers

more pull" with upper man

for spyware protection tools.

said larrad Winter, network security manager at Western

Now that Microsoft is

publicly making it

problem, spyware

known that this is a

United Insurance Co. in

SRL in June 2003.

Releases beta tool for fighting spyware, free utility for removing malicious code

release last week release last week
of two security
tools designed to help users get rid of spyware and other malicious code is a long overdue move from a company whose software is the biggest target of viruses and other attacks, IT man-

agers and analysts said. The release of the tools also puts Microsoft one step closer to directly competing with pure-play vendors of security software, they added. Microsoft made available a free beta version of Windows AntiSpyware, which is based

on technology acquired through its purchase of New York-based Giant Company Software Inc. last month [QuickLink 51521]. In addition Microsoft is offering a tool for removing worms, viruses and

will no longer be a throw-it-in-the-corother malicious code from PCs. That product is built around technology the compa-

WESTERN UNITED INSURANCE CO

NETWORK SECURITY MANAGER.

ner type of [issue].

designed to help users detect and block spyware and re-

soft is publicly making it known that this is a problem, spyware will no looger be a throw-it-in-the-corner type of fissnel" he said. Microsoft's move "really

demonstrates how big of a The release of the Windows problem spyware has be-AntiSpyware beta should belp come," noted Andrew Plato. president of Anitian Enterprise Security, a systems inteagement when they seek funds gration and consulting firm in Beaverton, Ore. And it's about time that Microsoft recognized the extent of the problems posed by spyware, said Russ Cooper, editor

of the NTBugTraq newslist and an analyst at TruSecure Corp. in Herodon, Va. "It's taken a lone time for Microsoft to acknowledge that what's been happening to PCs in terms of Trojans and spyware is a result of mechanisms built into Internet Explorer." Cooper said, adding that the

vendor needs to balance the addition of more functionality with security needs. Windows AntiSpyware is

move it from infected systems. said Amy Carroll, director of Microsoft's security business and technology unit. She said Microsoft hasn't decided whether it will continue to make the tool available for free download or will eventually chance users for it. But there

will be at least one more beta version before the software is formally released, she added. The GeCAD-based tool consolidates a series of malicioussoftware-removal utilities that Microsoft has shipped since last January, each targeting a single virus or worm. In the future, Microsoft will update the as-yet-unnamed product with new virus signatures as part of its monthly release of

software patches, Carroll said. The new releases build on Microsoft's efforts to integrate more security tools with its products. But for now, at least, there's nothing about Microsoft's offerings that should get security vendors such as Svmantec Corp. and McAfee Inc. "up in arms," said Pete Lindstrom, an analyst at Spire Sccurity LLC in Malvern, Pa.

O 51788 MORE ON INF

Promosed antegom and antenus software will have to west until the next major release. of Exchange Server, Microsoft says.

QuickElink 51792

www.competerworkE.com

More Worm Variants Target Smart Phones

arts of a worm that targets smart nes could signed the beginning affects; against such de ns, said the security soft

aid that there a no rea cale attacks targeting smart

The thing that concerns us the original source code for Cabir out there," said Travis Wittevoon, vice president of the Americas at 6-Securit U.S. beedqueders in

San Jose, Thus for, Cabir and its nts haven't proved to be par rly destructive, he said. But that could change, since the source code is ficating about ely, he added. For insta

treety, he added, not instance, the new versents of Cabir are ce peble of listing a code flew that slowed the spread of the origina version, according to Witteveen He said that in addition to

cious code called Shalls that since targets Symbian's software have begun appearing, further raising the potential thread to users.

ng smart phones is no later, an east on said John I together for there to be a real virus (west in the smart phone world," he said. "A do

and of 2006, he added. eless, companies that are using PDAs and smort Aces as corporate assets and

sure out formal processes for otecting them before the end of d year, Pencatore advised. You'd be bordering on the an analyst at Spire Security L in Malvern, Pa. But it's an im diete concern only for come that are heavily uping smart phones, he said, adding the ow are doing so now. In the real work, and my guess is that this would be on the low and of that

Users Remain Loyal to iSeries, **Despite Entreaties by Microsoft**

IT execs find .Net appealing for Web apps but stick with IBM's midrange line

Microsoft Corp. and several partners last month teamed up in hopes of enticing IBM iSeries users to extend or migrate their applications to Windows and .Net. But while some iSeries users have shown interest in Microsoft technology for their Web applications, several said last week that they have no inten tion of moving off their iSeries servers anytime soon.

"I like to sleep at night," said Mark Bondurant, vice president of IT at CBK Ltd., a wholesale importer of decorative home accents in Union City, Tenn, "Microsoft has made some beadway with their servers. But the AS/400, from the ground floor, was designed to handle multiple tasks oning on at the same fime," AS/400 was the original product name for the iSeries.

Despite his loyalty to the iSeries, Bondurant was happy to find a Microsoft lifeline when CBK was building a graphical user interface for a Web based sales force automation application that went live last May, Bondurant turned to Amalgamated Software of North America Inc. (ASNA), a Microsoft business partner in San Antonio, for its Visual RPG for .Net tool and companion middleware called DataGate that links a Windows server to

CBK's iSeries systems. When considering its op tions for the Web-based application, CBK viewed IBM's Java development path as too complex. Bondurant said. He added that the company didn't want to outsource the work to developers who didn't know its business. With ASNA's tools, CBK's developers could continue to use the familiar

RPG language, he said. Labatt Food Service, a distributor based in San Antonio. KEY FEATURES soft's Midrance nce Program DEVELOPMENT TOOLS

m Would Shade · ASNA's Visual RPG for Not Lanca Inc.'s Visual Lanca

m HCZ Technologies Ltd. also rejected laws as too complicated for Web applications

data. The company chose Microsoft's Visual Basic tools and also uses DataGate, which talks to its iSeries servers through proprietary protocols. said Tony Canty, Labort's vice president of information sys-

that need to access its iSeries.

terns and accounting. "I plan to stay with the iSeries as long as IBM does but I think they've made mistakes in the way they're going about WebSphere," Canty said. "If you on WebSohere, you have to do everything with Java. The beauty of .Net is you can do any language." Microsoft's Common Lan

guage Runtime environment lets Windows developers write code in more than 20 programming languages.

taken a different path. Ion Dell'Antonia, vice president of IT at OshKosh B'Gosh Inc. in Oshkosh. Wis., said the retailer opted for Java-based development tools from Macromedia Inc. for some of the Web applications that access the intograted databases on its two

Point of Entry

Tom Bittman, an analyst at Gartner Inc. said iSeries users can't stay on RPG forever. The application architecture will be up for grabs, with IBM trying to push users to Web-Sphere and Microsoft wooing them to Net he said But Bittman predicted that there won't he many users who actually swap out their servers.

Even Microsoft acknowledges that the immediate focus of its Midrange Alliance Program is to give iSeries users "a point of entry into the Microsoft platform in a way that solves a near-term problem." said Tim O'Brien, a senior product manager for platform strategy at Microsoft. As examples of near-term problems.

extending applications. O'Brien said migration becomes an issue when users upgrade AS/400s that may be nearing end of life and start to consider cost, complexity and integration, *ISeries customers love their machines." he said "What they don't like is the current set of choices they're setting from IBM's road map.

he pointed to modernizing or

But Ian Iarman, an iSeries product manager at IBM, said Microsoft's push is largely based on an IBM technology plan designed to allow iSeries users to exploit RPG and Cobol code to add new graphi cal user interfaces built to open standards. The alliance is "really a reaction to the application modernization in the iSeries community," larm

said. In some respects, it's

ers Pleased to See IBM

"an endorsement of what we're doing," he added.

Computerworld reporter Patrick Thibodeau contributed to this story.

U.K. Retailer Opens IT Unit in India

U.K.-based retailer Tesco PLC has set up an IT services and busi es support subsidiary in slore, India, and plans to re hundreds of jobs there later this year, The Tesco Hindustan lervice Centre will have a staff of not 770 by the end of 2005. o already has about 190 p ple in India working on a variety

Apple Unveils Xsan SAN File System

Apple Computer Inc. last week started shipping its Xean storage-eres network file system. The 64bit cluster file system enables Mac OS X Server users to share files and volumes of up to 16TB on a Fibre Channel network. The file system is priced at \$999 per client and per server.

Ceridian Sells Off SourceWeb Assets

Coridian Corp. last week said th on and other assets acc system for cutting into its 2003 and 2004 profits. Curidian will take a 2004 fourth-quarter charg of cosh it received in the deal.

Group Warns of Windows Attacks

about new int mine Service. The at-

C ON THE MARK

HOT TECHNOLOGY TRENDS, NEW PRODUCT **NEWS AND INDUSTRY GOSSIP BY MARK HALL**



Macs Attract New Support From . . .

... (T vendors that contend that Apple Computer's desktop are on the rebound inside big organizations. "We've been impressed with the resurgence of the [Macintosh] platform. It's gaining momentum," says Bennett Griffin, CEO of Griffin Technologies LLC, a

security wendor in Lawrence. Kan. At this week's Macworld conference in San Francisco. Griffin's company will release al Edition product. which combines a 1-in-long USB encryption device and client software to protect data on Macs.

That could be useful when a Mac laptop is lost or stolen, or if you keep ultrasecret data on your G5 desktor Without the USB donale and a password, the data is inaccessible, Griffin claims, He says his bigger customers have been asking for help securing Macs alone with Windows machines. Griffin's eneineers are also developing

an enterprise edition that will let systems administrators centrally manage Securikey devices from Macs. The admin console is available only for Windows now. Even though IT

REFFEN TECHNOLOGIES



says, France-based Atempo is a 12-yearold vendor of Windows backup software that opened a U.S. office last year in Palo Alto, Calif. At Macworld, the company will unveil Time Navigator 3.7, which can back

up and restore data to Mac OS X servers. Like Griffin, Atempo was pushed by large

customers, such as Raytheon Co. and France Telecom SA. to add Mac support. Dean says. Mac users not Time Navigator's full capabilities, such as encryption of data during backups and selfservice file-restore rights for end users. Pricing starts et less than \$5,000

Multimedia means multiple file formats . .

... and all the incompatibilit that goes with them. That's why New York-based Trans Media offers Colaborata. which CFO Donald Leks describes as a "compatibility eneine." According to Leke, Colaborata lets you place any file into an "upload window" that links to the service. which then translates the file into a format viewable on your PC or Mac Colaborata 2.5.3, which is due to ship late this month, adds a feature that lets you load digital media content into a shared calendar, call a meeting for people inside and outside your organization and ensure that everyone will be able to view

all the information. Pricing is \$60 a month per user. Virtualization tools reach down to PCs . . .

.. with a beta tool from Villware Inc., a Palo Alto-based division of EMC Corp. Called VMware Ace, the \$99-per-scat program lets you set end-user rights on PCs used by contractors, temps, mobile users and others. You can specify the networks that a device can access and create secure containers so that, for example, mobile users linked to networks outside your firewall can't release unapproved data or compromise their systems by accepting malware. But Michael Mullany, vice president of marketing at VMware, argues that the biggest growth potential for his business re-

mains in the data center. "Peo-

ole are looking at acres of



and seeing utilization rates in the 2% to 15% range," be claims, Mullany suggests that you can save 30% on hardware, 20% on software

Windows and

licenses and up to a whopping 70% on operations management costs through an aggressive server virtualization program. Customers seeking savines like that helped boost VMware's revenue from \$100 million in 2003 to more than \$235 million last year, according to Wall Street estimates. Can that kind of growth sustain itself in 2005? "Oh yeah." Muliany says

Centralized control of PHP servers . . .

is now possible with Zend Platform. The new software. available today, has a central console that alerts admins it there's trouble with applications based on PHP the opensource scripting language Zend Platform also can take you to the exact lines of code responsible for the flub, ac-

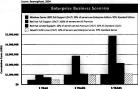
cording to Pamela Roussos. vice president of marketing at Zend Technologies Inc. in Cupertino, Calif., which is the primary developer of PHP. Roussos says Zend Platform works with Zend Studio 4.0, an integrated development environment that's set for release on Feb. 14. Zend Platform also comes with a J2EE Interrotion

module that lets you tie PHP compo nepts to ones written in lava, Subscription pricing begins at \$995 per year.









A necest study of licensing and support costs conducted by Beampform. I caleding independent consulting firm. South the these acquisition costs for Windows Server" 2003 are comparable to Red Hat Enterprise Linux or Novell's SUSE Linux Enterprise Server" despite the common perception that Linux infect over lengentive. However, "Lyou require full 2407 phone support on all severs. Licensing and support for Windows Server 2003 can cost up to 37% Server hand feld set Enterprise Linux over the years."

For the full study, visit microsoft.com/getthefacts



Corporate Use of IP VPN Services Gains Momentum

IT managers say service provider option offers lower costs, less management complexity

OV MATT MAMDI EN ON ISSESSA announced new satellite links and firewall capabilines for its IP virtual private network service and said VPN deals with corporate users blossomed last your - a claim that was echoed by rivals

Sprint Corp. and AT&T Corp. Those three companies and other nersouth service providers began feverably marketing tP VPN services two years ago, and 2004 was a bug year for customer adoption of the services, according to the carriers and industry analysts. Officials at MCI, Sprint and AT&T said the number of their VPN users tripled or nearly tripled last year, an upswing that they expect to

continue this year. MCI claimed that more than L000 companies are using its Private IP service, while Sprint and AT&T both said tomers for their offerings Several IT managers said the VPN services have lowened their networking costs and given them the ability to set up quality-of-service capa-

bilities for video or voice traf-

Correction

fic that shores a network with

data transmissions. In addition, relying on a service provider can reduce network management complexity com pured with trying to provision and maintain a VPN internally.

Easier Option

Helsinki, Finland-based Amer Group PtC, which owns sporting goods brands such as Wilson, began using MCI's VPN service in the U.S. last year after initially adopting it in Europe during 2003, said Jermaine Mason, IT manager at the company's Amer Sports Services division in Chicago. Amer spent about \$250,000 plobally for Private IP last year, he said.

The company weighed offers from several carriers and considered trying to develop a comparable network itself, Mason said. But ultimately. Amer chose MCI despite the fact that the vendor had been charged with financial interoprieries that forced it to file for bankruptcy protection. from which it emenued last

"We felt MCI was coming out stronger after everything they went through, and they were one of the bigger providen " Mason said "We considered the work we'd need to do to maintain such a network service and decided it is much easier to Irely on I MCL Videoconferencing is al-

ready supported on some of the VPN links in addition to data transmission, and the use of videoconferencing technology will be expanded in the future, according to Mason. In all, 20 Amer locations in Europe and the U.S. are connected, he said.

which offers bosted financial

and banking applications, uses ATS I's IP-enabled framerelax service to connect to its customers, said Bob Poiman, senter vice provident of technology and network services at the Houston-based unit of The Bisys Group Inc The ATAT VPN provides

"any-to-any" connectivity brancher to connect to Bioxy. through a hub, making it easi-

er for customers to use the company Supplications, said Pojman. By eliminating the hub, network latency dropped by nearly 30%, while costs in-

added, Poiman wouldn't disclose how much Bisss is poring for the VPN service. Another MCI customer. Euler Hermes American Credit Indemnity in Owings Mills.

Md, has used Private IP for more than a year for data traf-Go and come source-court-IP trials, and it plans to run a full VolP system over the VPN. It saves us tons of money said David Kozlowski, vice president of technical services able to double the ban-baidth

of its WAN links to 256Kbit/ at Euler Hermes ACI. He noted that the credit insurer was

MCI's New VPN Functionality

> sec, while dropping its monthly costs from \$10,000 for a previous frame-relay network to \$8,000 **© 51798**

Extreme Networks Adds Pair of Modular Switches

Aspen 8800 Series Extrame Networks Inc.

· PRODUCT SUMMARY: Senta Clara, Calif -based Extreme today plans to introduce two moduler switches with Gigabit Ethernet and 10 Gegabit Ethernet capabil-tes. The Aspen 8810 includes 10 slots, and the Assen 8806 has six. Extreme said the Aspen rol out adds a tier of switches below

its BlackDamond high-end line The new devices are suited for use as access-layer switches to integrating wired, wireless and P telephony deployments and as in terropropriet for burb parlormance

- USER EXPERIENCE: Witch Foods Inc. in Concord Mass, bas nurchased two Aspen 8810s in use as once network switches that will work in tandem, with one redundent to the other, said Carmine lannace, manager of IT

architecture at the usce and refy The switches, which are due to be installed within a month, will eventually be shifted to support a planned vace-over P system

But lannace said that for now, their performance and high-availability leatures should let them function well in Weich's data center. "High availability in these switches is crit cal for us, since we support from cials for manufacturing and other

NEW PRODUCTS

functions," he said. Extreme "gave us a very appres sive price" on the Aspen switches. (annace added, He wouldn') dis close the amount but said it was 35% lower than the cost of Catal

6509 switches from Cisco Systems Another customer, High Performance Technologies Inc. in Reston



Linux-based system that the National Oceanic and Atmospheric Administration uses to do west er modeling, said Cong Tierney, a systems architect at HPTL The swich will be placed in the back hone of the 1000 made cluster At a NOAA tapity in Boulder. Colo, HPTi is a systems integra-

for for the agency According to Tiercey, HPTI has used Editerne's products for meny weets because the vendor's oper is both high-perfor mance and inexpensive. "We want everything, and we want it

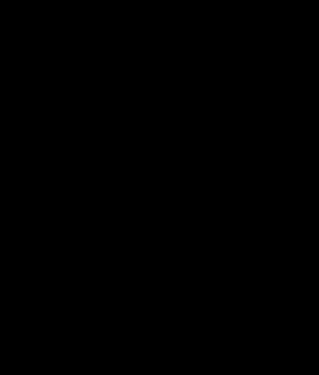
AMALYST ASSESSMENT: Josh Johnson, an analyst at Sweeze Research Group Inc. in otterfole Arts earl the Bones research collaboration with Aveye Inc., which offers voice switching products. "Virty customer-friendly pricing is likely to help the Aspen," Johnson said.

MRKET: Cisco and Founds tworks inc. among others.

- PRICESS State of \$350 per port for Groatet Ethernet func nainy and \$3,500 per port for 10 Glagabit Ethernet

- ANAII ARLE: Now O SIZES

- Matt Hamblen



Corporate Use of IP VPN Services Gains Momentum

IT managers say service provider option offers lower costs, less management complexity

CLINC last week announced new satellite links and firewall capabili ties for its IP virtual private network service and said VPN deals with corporate users blossomed last year - a claim

that was echoed by rivals Sprint Corp. and AT&T Corp. Those three companies and other network service providers began feverishly marketing IP VPN services two years ago, and 2004 was a big year for customer adoption of the services, according to the carriers and industry analysts. Officials at MCL Sprint and AT&T said the oumber of their VPN users tripled or nearly tripled last year, an upswing that they expect to

continue this year MCI claimed that more than L000 companies are using its Private IP service, while Sprint and AT&T both said they have hundreds of customers for their offerings

Several IT managers said the VPN services have lowered their networking costs and given them the ability to set up quality-of-service capabilities for video or voice traf-

fic that shares a network with data transmissions. In addition, relying on a service provider can reduce network ent complexity com nared with trying to provision and maintain a VPN internally, the nears said

Easier Option Helsinki, Finland-based Amer Group PLC, which owns ting goods brands such as Wilson, began using MCI's VPN service in the U.S. last year after initially adoption it in Europe during 2003, said Jermaine Mason, IT manager at the company's Amer Sports Services division in Chicago. Amer spent about \$250,000 globally for Private IP last

war be said. The company weighed offers from several carriers and considered trying to develop a comparable network itself, Masoo said. But ultimately. Amer chose MCI despite the fact that the vendor had been charged with financial improprieties that forced it to file for bankruptcy protection, from which it emerged last

April "We felt MCI was coming out stronger after everyth they went through, and they were one of the bigger pro-viders," Mason said. "We considered the work we'd need to do to maintain such a network service and decided it is much

easier to (rely on) MCL" Videoconferencing is already supported on some of the VPN links in addition to data transmission, and the use of videoconferencing technology will be expanded in the ture, according to Mason, In all, 20 Amer locations in Europe and the U.S. are con-

nected, he said. Bisys Information Services

and banking applications, uses AT&T's IP-enabled framerelay service to connect to its customers, said Bob Pojman,

senior vice president of technology and network services at the Houston-based unit of The Bisys Group Inc. The AT&T VPN provides "any-to-any" connectivity instead of requiring bank

branches to connect to Bisve through a hub, making it easier for customers to use the company's applications, said Pojman. By eliminating the hub, network latency dropp by nearly 30%, while costs in-

creased by only about 10%, he added. Poiman wouldn't disclose how much Bisys is paying for the VPN service-Another MCI customer Fuler Hermes American Cred-

it Indemnity in Owings Mills. Md. has used Private IP for more than a year for data traffic and some voice-over-IP trials, and it plans to run a full VoIP system over the VPN. "It saves us tons of money said David Kozlowski, vice president of technical services

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Aspen 8800 Series

BLE: Now O 80793

(P)

MORE ROM YOUR NETWORK

MEANS MORE POWER MORE AFFORDABLY

ProCurve Networking by HP offers a range of affordable gigabit-enabled switches that is second to none. That means you can get better performance from your network along with better performance from your networking dollars. Downloads that used to take minutes can now be done in seconds. And you can do it for cents. Not dollars. That's high-availability gigabit performance at the edge-not just the core of your network. What's more, ProCurve gigabit-enabled switches are backed by a lifetime warranty'-perhaps the best in the industry. More affordability. More choice. More productivity.



roCurve Networking

IIPS Promotes Barnes to CiO

Inited Parcel Service Inc. re evid A. Barnes CIO and sonior ng Ken Lacy. Barnes, a 28-year UPS veteran, was previously vice ident of customer and opera tions application portfolios in UPS's information services depart-ment, in his new role, Bernes joins

AMD Plans to Host

Developer Show Advanced Micro Devices Inc. ns to host its own develope ence this year, after years of holding mostings with analysts and the media at rival lotel Corp.'s ons. A nource said the orance will be held in the secpairtur, right around the time Microsoft Corp. is expected

Sovware Bill Gets Second Chance

Congress will vote again this ye on amended antispyware legisla tion that would call for fines of up to \$3 million for makers of tion from a com ck its browner. A similar bill was passed by the House last year but rejected by the Senate. The new bill addresses the objections of vendors that complains that the original bill could make their services subject to fines

IBM Tools Aid in

Federal Compliance BM this month will rell out its Son for Compliance in a Regu d Environment, or Score, a era solta includine docu

IT Execs Divided on Software Cost Trend

But most expect continued hikes in application maintenance, support fees

BY THOMAS HOFFMAN OR THREE YEARS, OTterprise customers have had the upper hand in business application price negotiations From 2001 to 2003, IT spending cutbacks let customers negotiate as much as

50% discounts off the list prices for software. Continued weakness last year forced wendoes to boost those discounts to the 65% to 20% range said Gartner Inc. analyst Jane Disbrow Maintenance fees grew during the downturn, she said. Looking out into 2005, IT managers and industry analysts said it isn't clear how software pricing will so. though some noted that a vari-

ety of market factors could slow the discounting trend and in some cases even lead to increased prices. At the same time, most IT managers interviewed last week said they expect maintenance and support costs to keep growing as they continue searching for soft-

ware cost certainty **Validating Price Hikes**

John Schille, CIO at American Fidelity Assurance Co. in Ok-Ishoma City, said he expects a "moderate" increase in application costs. He said vendors may justify cost increases by improving base functionality. Vendors will have to vali-

date the need for any price hike, said Dan Demeter, senior vice president and CIO at Korn/Ferry International, an executive recruitment firm in Los Angeles, "I think yendors are going to be careful about raising prices in a noticeable

way," he said. Since 2001, application vendors have generally raised

maintenance and support fees from 14% to 19% of annual

licensing fees to 18% to 20%, mooths, though, vendors have shown a willingness to negotiate lower maintenance costs

by charging a percentage of the discounted price rather than the list price, especially for customers buying oew licenses. the said. At Microsoft Corp., though maintenance discounting isn't a common practice.

said Sunny Jensen Charlebois, product ma in the worldwide licensing and pricing group at the copany. "If we discount, we

tenance," Cohen said. Vendors are "very aggressive on the initial pricing" but not on maintenance.

Enrice part Americado of mission-critical applica-

Holding Corp. is forced to pay "hefty" sums for maintenance

software." Charlebois said.

Barry Coben, vice president

of applications management at

Wells Real Estate Funds Inc. in

Duluth, Ga., said such deals

are unavailable to communics

that aren't begring

new applications.

His software voo-

dors typically tack

on 4% increases in

fees, which lead to

nance costs. "The

biggest pain point I see is on the main-

annual licensing

Jerry Bartlett, Columbia, Md.based vice president of application development at the online stock brokerage. Bartlett also looks for new payment options from vendors, "Not everyone is going to be willing Meanwhile, Meta Group

tions but is less willing to do so for noncritical systems, said

to pay for gold- or platinumlevel support," he said. Inc. predicts that application software costs will fall over the next three to five years as a result of increased adoption of low-cost operating platforms such as Linux and a trend among eoterprise customers to leverage Web serarchitectures to build applications and functionality on top of existing business applications, said analyst Dule

Kutnick Whether application costs rise or fall, enterprise customers share a common goal: they want their software costs to be predictable, said Frank Enfanto, vice president of operations delivery at Blue Cross and Blue Shield of

Massachusetts Inc. in Boston.

Gartner/Meta Deal Subtracts Opinion

ted the IT scome in the









he queen was in her counting house, counting oil her company's awings. Hore specifically, when we cought up with R.O. Ida, the chief inancial officer, she was tallying last month's savings, the result of a total mobility solution the Queen of Lean has begun implementing.

What's up with that jar full of old rings and tarnished coins on your ... Spitchill 2,997, 2998, 2,999, three thousand dollars! Wow, right to the bottom line. And we haven't even reined in all the runaway mobility expenses yet. Oh the lar... It's stuff! I found with my metal detector.

You're smilling, which is odd for a CFO; are you actually enjoying yourself? It sure beats signing expense reports—they're what I like to call a selement's best shot at creative writing! but what really gives me a kick is saving money, and that's what we're doing here now with our new total motile stategy.

A strategy for all mobile services? Why not let individual departments decide what's best, or even the individuals themselves?

That's what got us into a big mess in the first place. Until recently, we had five different mobile service providers. We had hardware from eight different weekors. We had incompatible mobile email solutions it, was had for us to guarantee security with such a rat's nest. And man, was it expensive. Tell you the truth, we had a really had time just tracking the expense. To people like me, that's like not knowing the day of the week.

So what did you do?

I was complaining about this to a fixend while we were window shopping, and she said, "Call Nobias," So I old, it wasn't just a business query—it was an SoS. because we were spending a drived of our IT budget on mobility. After routine IT maintenance, we were left with zippo for strategic development. It was like throwing good money into a parking meter—there was just no enturn.

What did Nokia do for you?

What did Holks do for you? For statest, by helped us develop a total mobile connectivity solution, with uniform high-speed remote access to give our road warriors the info they need no matter where they are, and quickly They layered in just the right amount of security, including a secure VPN And they gave our administrators real respirouse tools to assign access privileges based on user identity. This was not foundation.

Then what?

Slowly but surely, we developed a plan with holds to get not of a lot of the incompatible, during mobile hardware and register in with intelligent Noisi denotes. They are but to work seamlessly together, which means fewer calls in the middle of the height from saff-indigencemes of the plotte to our help deak. And less help-desk expense. With their guidance, our mobile workers egy just what they hold but no more if the that. Now we entrolly all reviews devices, and maintenance and replacement schedules are predictable. I really like that.

Anything else?

Anythmine elser.

You bet: Devone knows the killer app today is email it's the lifebood for our mobile workers. Notice workers with us to provide a uniform, simple, and highly relable mobile emails outson that, has sweet us be plucks. They helded us fine-have the solution to the different devices out If puys deploy, because some own warriors, like out with the "PAR bid must all others like their liketops, and still ordhers prefer their smart phones he—I just love the older savings that come from a single, prefedible, and relable models email solutions.

Sounds like Nokia helped you find a key to the efficiency kingdom. Yeah, and I didn't have to use my metal detector to find It. Now, if you'll excuse me, it's lanch time and I'd like to balance my checkbook. By the way, the time's out on your packing meters.



erviewer Bill Laberts was editor-in-chief of Computerworld for ten years (1986-1996). He is president of Bill Laberts Associates, a custon lithing and content company (www.laberts.com). His columns, Webcasts, supplements and magazines are well-known and respective undough the high-tech industry.

Learn how to mobilize your team and increase business productivity. Download "The Anytime, Anyplace World" white paper.

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Autobahn Toll System Finally Begins Operation DUSSELDORF, DERMANY

A PRIMANY'S electronic truck-toll system belatedly began operation on Ian. I without a glitch, accordme to the country's Traffic Ministry The system had been plagued by technical and management problems that delayed the rollout by more than I8 months and thus cost billions of curos in lost toll revenue

The full Collect system uses on board computers with Global Posmonone System rechnology to track the distances that individual trucks travel on toll roads and then transmit the data wirelessly to a data center for billing About 800,000 trucks use German hichways every day; so far, the onboard computers have been installed in about

320,000 of them Toll Collect GmbH, the operator of the toll system, is a joint venture between DamlerChrysler AG, Deutsche Telekom AG and Coffronte SA, a French company that manages motorway operations. The consortium sufferred a setback when it encountered software problems with the mittal onboard unit. It decided to deploy a simplified version of the software, which

An International IT News Digest

is due to be replaced with a full ver-

■ JOHN BLAU JOG NEWS SERVICE Samsung Builds 21-in. Organic LED Display

FOUT RASED Samsung Flectromes See last week unveiled a proto-type organic light-emitting diode (OLED) display that it says is the

largest yet made by any manufacturer The Samsune screen measures 21 in. diagonally and offers a Wide Ultra Extended Graphics Array resolution displaying up to 6.22 million pixels, OLED displays, a potential replacement for LCD and plasma displays, don't need a backlight, so their power consumption is low. They're also more responsive to



fast-moving images, according to the technology's backers

Samoune said the 21 m. OLED display could be mass-produced on its existing manufacturing lines. There was no word on when the device will be

ome commercially available ■ MARTYN WILLIAMS IDG NEWS SERVICE

Tsunami Spares India's Chennai Data Centers BANGALORE, INGIA

UTSOURCING companies that have operations in Chennai, one of the locations on India's southcust coast hit by the Dec. 26 (sunami said they were largely unaffected and have decided to stay in the city.

For example, Bangalore-based Wipro Ltd. uses its Chennai facility as one of two backup sites for its own corporate data as well as for customer data "We have no plans to move the backup faeffice from Chennas, because the facili ty is sufficiently inland and not at risk." a company spokesman said

Because of a border dispute in the north of India between the governments of India and Pakistan, several outsourcing vendors have beefed up their operations in Chennai, figuring that it would be a safer location in the event of a war between the two coun-

■ JOHN RIBEIRO IDS NEWS SERVICE Compiled by Mitch Betts.

Briefly Noted Austron 2 0, a Linux distribution

being developed by three vendors in South Korea, China and Japan as a standard version of the ook

source operating system for Asia. will be released in July, a spokes man for Seoul-based Hears Inc. said last week. The other nart ners are Red Flag Software Co. in ijing and Miracle Linux Corp. In

■ SUMNER LEMON IOG NEWS SERVICE

Outch authorities last most issued their first fines for soam e-mail originating in the country. The Netherlands in May enacted a ban on sending unsolicited e-mail to sumers, and it's new considing a similar edict on snom directed

■ JOHN BLAU IDG NEWS SERVICE

imporations in the U.R. and freland will more than double their ng on IT security this year hets at IDC's Lordon office icted lest month. But the study yers are confused by the

business units (QuickLink Code Reuse Pays Off for ING

BY LUCAS MEARIAN ING Americas last month finished work on a qualitymanagement application built using an innovative development process that the company estimated saved it \$300,000

and 1,200 man-hours The ING IT team first built the architecture and enceifications for the application about 60% of the work - and farmed out the rest to Glastonbury Conn -based TopCoder Inc., which solicits bids from independent developers interested in building components for specific projects. TopCoder also reuses lava and Net components built for other projects.

"We've built applications from reusable code several bundred times internally, even through India-based outsourc-

ing, but nothing quite like this. tion and put out an RFP on codable specs" said Chief Technology Officer Raymond Karnenbauer While the project's savings

aren't hugely significant for Arlanta-based ING Americas a division of \$106 billion ING Groep NV. Karrenbauer said he hones to institutionalize the service-oriented application development methodology, which he called "revolutionary"

Fast Fix Needed The financial services firm

needed the application in part for a massive data integration effort started in July 2001 that created a unified information architecture for its seven U.S.

49418]. Initial use of the system revealed data-quality problems that had to be fixed quickly. The company was able to build a complex applieation to fix the problem in procedure.

For the ING project, 87% of the application came from reusable Java components, Karrenbauer said.

The application, completed late last mooth, was designed to improve the quality of information moving through several lioked IBM DB2 Uniwhich contain financial, customer, transaction, product and sales data.

\$400,000 to code it in-house. The new program looks for data anomalies to see if any values are incorrect, such as name spellings or ZIP codes.

compared with an estimated "This is an interesting model, because it's like using a general contractor. The vendor takes your specification. puts out an RFP to build it. and then they perform a validation check on it. We then put it into production," Kar-

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Karrenbauer said the new application, which consists of

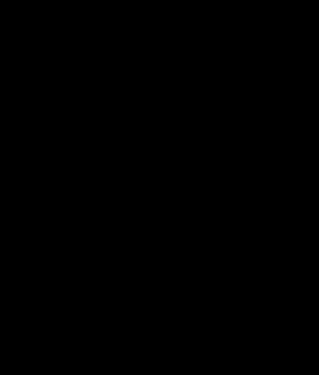
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renbauer said. "Right now, the big buzz is around code sourcing" using outsourcers to build applications via traditional methods, Karrenbauer said. "Those are more cost-efficient models than we have today. But this is revolutionary. It blows those models out the window." O 51789

Requirements In





sion next year

Autobahn Toll System Finally Begins Operation DOSSELDORF DERMANY

ERMANY'S electronic truck-toll system belatedly began operation on Jan. I without a glitch, according to the country's Traffic Ministry. The system had been plagued by technical and management problems that delayed the rollout by more than 18

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Compiled by Mitch Betts

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Karrenbauer said the new application, which consists of 17000 lines of code in 13 modules, cost \$20,000 to develop, compared with an estimated

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irement to make these no-

tices even more complete and

long," he said. That has result-

ed in privacy notices that are

barely readable and largely in-

But companies in regulated

industries could find it hard to

Herath, chief privacy officer at

Nationwide Mutual Insurance

use shorter ootices, said Kirk

effective. Abrams claimed.

Continued from page 1

Privacy

age fits in a single screen on a PC and is separated into six data fields, each containing concise, bulleted information about P&G's privacy policies. Links are included that open separate windows with more detailed descriptions of the

P&G has yet to implement a similar short-form notice on its European Web sites, but Hughes said it plans to do so. "What will take time is the multiple language translations to go on top of our policies. which are already in 17 lan-

guages," she said. Peter Callen, Microsoft's chief privacy strategist, said the software vendor also plans to implement a layered notice approach similar to the one

being used by P&G. Focus-group research done last year by Microsoft in Germany and Hong Kong showed that consumers were overwhelmingly in favor of shorter privacy notices, he said.

Microsoft will begin by imnting short-form notices on its MSN Web sites in Europe, Cullen said. He noted that the challenge is in figuring out exactly what information needs to be included in the shorteoed notices to make them suitable for the bulk of Microsoft's customers.

The EU's data privacy commissioners are proposing the adoption of the modular notices as a way to make privacy statements more user-friendly, said Jonathan Ramford, assistant commissioner in the U.K.'s Information Commissioner's Office.

Legal Obligations Remain The short-form proposal does not eliminate the legal obligations that companies have to disclose their privacy polices in full, according to Bamford. What it does is provide another layer of clarification beword what the law says you

ave to do," he said, Under the multitier approach, companies still must offer a full notice that spells out all of their privacy policies and their legal obligations. They can supplement that no-tice with the following: Short notices for situs

tions where the space available for displaying informa tion is limited, such as on cell phones or handheld devices. ■ Condensed notices presented in the format that P&G is using, with brief descrip

tions of policies on the kind of personal data that a company collects, how the information will be used, who it will be shared with and the right to view and correct information. There's a need for a similar

rivacy-notice model in the U.S., said Martin Abrams, executive director of the Center for Information Policy Leadership at Hunton & Williams LLP in Richmond, Va. The

center, whose members include Microsoft, P&G, Eastman Kodak Co. and Citigroup Inc., led a workshop on the EU

proposal last March in Berlin. Privacy notices in general have gotten "incredibly long" over the past few years. Abrams said, pointing to the adoption of federal regula-

PoGr

tions such as the Gramm-Leach-Bliley Act and the Health Insurance Portability and Accountability Act. *When GLBA and HIPAA were passed, there was a re-

er promise De skied een strongten unterden produce phone dat best

Co. in Columbus, Ohio. "Those of us who are required to provide privacy notices under GLRA or state pri-

vacy law have very specific notice requirements as to what we need to say and explain to our customers," he said. "I've never seen a short form notice that does an effective job of providing all of the occessary legal ingredients: As a result, companies that use condensed notices could be leaving themselves "wide opeo" to charges of deceptive

trade practices, Herath said.

Novell, Red Hat Eye Virtualization for Linux 19 spest operating systems on

OS rivals to offer open-source tools

Novell Inc. last week said it will soon detail plans to include server virtualization technology in its SUSE Linux operating system. Red Hat Inc. intends to do the same thing with its Linux distribution. and a leading contender for

both vendors may be an opensource virtualization technology called Xen. Both Red Hat and Novell said they're also looking at a

number of other virtualization technologies. Novell, for instance, is eyeing Acton, Mass. based start-up Katana Technology loc.'s promised virtualization software, which is expected to run on Linux machines. Beyond that, all Novell will say is that it plans to act quickly. "We want to be aggressive about it," said Ed Anderson, vice president of mar-

keting at Novell. Hewlett-Packard Co., Intel Corp. and Advanced Micro Devices Inc. are already work-

ing with Xen, according to of-

ficials at each of those companies. Intel and AMD are particularly interested in ensuring that Xen works well with their chip-partitioning technologies, which are due out next year.

Xen is available for download from the Web site of the University of Cambridge in England, where the 3-year-old opeo-source effort is based. The creators of Xen plan to open a company called Xeo-Source Inc. in Palo Alto,

Calif., within the next few weeks to support users of the technology. **Waiting for Acceptance** But corporate users may not embrace Xen until mainstream IT vendors back the

technology. That's the case for Bob Armstrong, director of technical services at Delaware North Cos., a Buffalo, N.Y.-based hospitality services provider Armstrong uses VMware Inc.'s virtualization software to run

two production servers, each with two CPUs. He has virtualized about 25% of his data center and plans to increase that to about half of his systems over the next 18 months. Armstrone said the technol-

ogy from Palo Alto-based VMware, which is a division of FMC Corp., has allowed him to cut hardware spending by one-third. He also uses NetWare servers and will look at Novell's virtualization techcolory. "Anywhere we can leverage our Novell invest-

ment, we would love to dothat," Armstrong said. "If we weren't a Novell shop, we wouldn't consider it. Xeo supports Linux but not Windows, which means it's unlikely to be adopted by Carmine lannace, manager of IT architecture at Welch Foods Inc. in Concord, Mass. Isnnace is running VMware environments that support Windows, Linux and Solaris. "We want to have the ability to run Windows, Solaris and Linux on the same server, and we

really haven't found anyone

me" he exid

else who can provide that for

But lannace added that the emergence of Linux vendors will increase competition in the virtualization market and help corporate users "by keeping a check on prices." Xen doesn't support Windows because it requires a modification to the operating system kernel. However, Intel's planned chip-partitioning technology and a similar offering due from AMD are expected to allow Windows to run in a virtualized environment

DOE Works With TECSvs on Infrastructure Security

The U.S. Department of Energy's Idaho National Engineering and Environmental Laboratory (INEEL) entered into an agreement late last month with TECSys Development Inc. to jointly develop software for monitoring and securing the systems that help control

the nation's electricity infrastructure. The two organizations will update the TECsys Console Works console management system. The enhancements will be aimed at monitoring energy industry network devices, including servers, routers, switches and firewalls, as well as applications such as the outage management and energy management systems that utilities use.

management systems that utilities use, said Jim Davidson, consulting technical specialist at the INFEL in Idaho Falls. "Our goal here is to develop methods to protect the critical [infrastructure] of the U.S.," he said. The pact allows TECSys to sell updated versions

of ConsoleWorks.

One industry expert called for the effort to be expanded to ensure the security of the control systems themselves. Such systems help regulate the transmission of electricity and the flow of water and natural sax through the

U.S. infrastructure by controlling basic functions, like flipping switches and opening valves.
"What really needs to be secured are

"What really needs to be secured are the controllers and field devices that feed the operator workstations," said Joe Weiss, an executive consultant at KEMA Consulting in Burlington, Mass, and previously a control systems security expert at Electric Power Research Institute Inc. The control votates are unite different from IT

systems like Console-Works and energy management systems, he added.

"People are trying to apply IT systems to control systems without knowing what the actual security gaps are in control systems that need to be solved, and without realizing that those IT technologies or test procedures could impact control system operation."

Evaluating Industry Systems
Davidson said the INEEL is addressi
the security of control systems by ex-

Weiss said.

Davisson said the invELL is sourcessing the security of control systems by evaluating the capabilities of the energy industry IT systems they interface with. Sever Cotton, president and CEO or TECSys, said the INEEL is evaluating. Console Works in its testbed to deterbased and can run aredications written

es and be ad ment cured are ical e

mine how more security features can be added. The Console Works enhancements include the ability to monitor critical events from either SNMP systems or noo-SNMP systems, said Cotton.
Those and other improvements,
such as a repository of best practices
and event remediation in near real
time, are planned to be included in the
next release of ConsoleWorks, which
is due in March, he said. © 5788



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Microsoft Drops XP for Itanium 2 Workstations

Microsoft Corp. has pulled the plug on a version of Windows XP for workstations running Intel Corp.'s Itanium 2 processor. The move follows the decisions by major hardware suppliers to stop building workstations based on the 64-bit chire.

Microsoft plans to focus on developpents of a version of XP for workstations based on 32-bit processors with 6-bit extensions. Windows XP Professional x64 Edition, which has already faced several delays, is due to ship by midyear. Microsoft will continue to build versions of Windows for highend tranium-based servers, a spokeswoman said.

In this case, Microsoft defines workstations as high-performance desktop computers often used by designers and engineers and in video production environments. Unlike Itanium, processors with 64-bit extensions are x86for both 32- and 64-bit processors. Intel officials expressed support for Microsoft's decision to halt development of the Windows version, which was officially called Windows XP 64-Bit Edition Versioo 2003. "We're aware of Microsoft's plans and agree with their priorities and direction," said Erica Fields, an Intel spokeswoman. "The

workstation market really has never been a main focus for the Itanium." Hewlett-Packard Co. was the last major vendor to offer Itanium-based workstations: it halted sales in September, citing market conditions. Dell Inc., had already pulled its Itanium workstations off the market.

Since nobody was selling the workstation hardware, Mérconoff v decision to retire Windows XP for Itanium is no great surprise, said Nathan Brookwood, an analysi ar escence firm Insight 64 in Saratopa, Calif. 'It has been increasingly obvious over the last base year that Itanium is moving more and more tinch the mid- to high-end server space and away from low-end servers and desktops.' © 3783

Evers reports for the IDG News Service.

DON TENNANT

New Year's Convolutions

FRE I GO, bucking the system again. What is it with me? Everybody's writing columns about their New Year's resolutions, but I just can't bring myself to do it. Instead, as convoluted and norm-deffing as it may be, I'm going to write about the things I have absolutely no intention of changing in 2005.

I will be just as annoying as over in saying "told ye

se." As you're probably aware, Dave Duffield resigned from his position as CEO of PeopleSoft on Dec. 2l, just one day after my column in which I advised users to expect an exodus of PeopleSoft execs (QuickLink 51483). A few days later, PeopleSoft Co-Presidents Kevin

Co-President Acrime
Parker and Phillip Wilmington got the boot. Of course, all of
that was a gimme. My grandmother
knew Duffield would be the one to
start the exit door revolving, and it
pretty much went without saying
that Oracle was going to clean house
as soon as it got the keys. What
could possibly be more annoying
than saying "tody as of" after making
than saying "tody as of" after making

than saying "one ya so 'atter maxing aprediction that's glaringly obvious? I will continue to gradjusty admit it when I good to, in that same column, I quoted Damien Benn as comparing the Oracle/Popilsoft merger with "Sperry buying Burroughs." As any number of helpful readers have pointed out, it was actually Bur-Damba table housely Sperry, And of

roughs that bought Sperry. And of course that's exactly what Bean said when we spoke, but I somehow managed to flip the two company names around when I wrote the column. That was just plain stupid. Sorry for the brain burp, and especially for the appearance that it was Bean's super-sharp brain that had gas.

I will keep shopping at Wei-Mart, despile the fact that the retailer inthesistates its suppliers into tooing its RFID line. It's no secret that many of those suppliers are less than delighted with Wal-Mart's overhearing RFID mandate and what it means for their own bottom lines, but they're just pettified to say anything to upset the good of boys in Arkanass. That's disquasting. On the other hand, I hate paying more for razors and shoe polish than I have to Re-

sides, at least they don't self the bedding and cookware lines of any convicted felous. And where else can you buy clothes that you know weren't made by a bunch of geezers? I will persist in believing in miracles. How could I no? How else could anyone explain how Advanced Micro Devices has been so successful with

Oil

positive stories out of recent deviopments. Ilies Microsoft pulling the
plag on Windown XP for Itanium
servi devade long Brainson ordevel with Wash
and it
at i

sil gin offering. Opteron-based systems; see Cujeki.hit 45064. And can you imagine how ticked off Intel must have been when word surfaced last week that AMD plants to hold its own U.S developer conference. After years of suffering the indignity of having to arrange meetings with analysts and journalists at Intel's developer conferences (QuickLink 57TIP I will continue to cases writing when

its Opteroo processor, while Intel's

badly it's getting embarrassing? It

ranked right up there with Cyrix

Corp. in the also-ran Intel-compati-

Intel DR machine is having to spin

Itanium albatross is being plucked so

doesn't seem that long ago that AMD

ble chip market. It just always seemed

Intel was invincible. Now the hapless

Ferences (QueckLink SI/III)

I will continue to cease writing when
I'm out of space. But only because 1
have to. © 81768

no Don Fernant



HE'S HE GREETER FOR THE SUPPLICES."

DAN GILLMOR

Macs Could Infiltrate the Enterprise

NE OF THE BIGGEST stories of last year was the continuing resurgence of Apple Computer — as a music and media company. The wild popularity of the iPod las been one of the most remarkable

successes in recent times.

As a new year arrives, and with the start of the annual Maxworld Conference & Expo in San Francisco, Td like to remind everyone that Apple still has a story to tell in the arena where it first made its mark — computers.

For TL Annel has always been a

For IT, Apple has always been a tough buy. The company has made too little serious effort to sell into enterprises, even when it could have made a strong case. Yet

the case is actually stoneger than ever in stone respects. It's so strong, in fact, that I'll wager we see several major enterprise wins for the Macintosh in 2005. For what Apple calls "reseaftive new-

calls "creative professionals," such as people in advertising and media, the Mac is still the machine of choice. It's also a solid consumer mod-

el, especially for prople who are into digital photography,

video or music. But Apple could expand its enterprise sales. One key reason is security Despite some strong if belated effort on the part of Microsoft to fix its lealy flagship, Windows and other major Microsoft applications, notably value Microsoft applications, notably plagued by vietness, worms, spiware and other malware, and it's a constant butle past to keep up with the lattest

Mac OS X isn't immune, to be sure. Perhaps its low market share has prevented malware authors from plying their nasty trade on the system. But I can't remember the last time a Mac virus or worm caused any serious ly recognized for its solidity. Moreover, the Mac deskton is more than adequate for most tasks these days. One reasoo is that most of us do just a few things with our computers, with the browner e-mail word processor, spreadsheet and presentation applications covering many corporate duties. And Microsoft Office is available on the Mac, after all.

Sure, for many coterprises, the Mac won't be useful, due to platfor specific internal applications. This is what holds back not only the Mac but Linux desktop deployment, too.

Apple makes its strongest enterprise case oo a higher level, with its Xserve G5 servers and Xserve RAID storage systems. Both are powerful, relatively affordable and - as you'd expect from Apple - easy to administer. (It's puzzling, bowever, that Apple let Web-Objects, the system for developing server-side Web applications, languish

in the marketplace.) For now, though, small businesses are Apple's best ponconsumer market. Meanwhile, the open-source community continues to improve Linux's desktop capabilities. Linux will probably never match Apple's ease of use and elegance but as it becomes good enough for general use. Apple's best window of opportunity for enterprise sales will likely be narrowing.

For me, using a Mac is a practical thing. I've said this before, but it bears repeating: My Windows computer tends to get in my way when I use it. My Mac tends to get out of the way. That's a buse difference. O 51676

MICHAEL H. HUGOS

How IT Is Changing The World

ECENTLY, I was asked to speak at an IT conference in Johannesburg. South Africa (or Io'burg. SA, as the locals say). The trip from Chicago took me first to Frankfurt, where I had a six-hour lavover and spent some time looking around the airport. I couldn't help noticing two things. First, there were all kinds

of people flowing through - Europeans, Arabs. Asians Indians Africans And second, IT was everywhere. There were bie wall posters in the concourses and electronic billboards in the shopping areas advertising products and services from IT companies in the

Americas, Asia and Furnoe They touted everything from laptops and the latest cell phones to on-demand computing and high-tech

logistics services. I wound up sitting in a restsurant sipping coffee and memching on a basel. As I looked at the people passing by. I noticed a sign that said "WLAN." Did that

mean what I thought it meant? I pulled out my laptop and turned it on. Sure enough, it picked up a wireless signal. I opened my browser, and up came a screen in German. In the upper-right corner was a row of national flags. I clicked on the British flag, and the screen instantly switched to English. I logged on and began sending e-mail

to family and friends It struck me as totally cool to be able to sit in a restaurant in Frankfurt and tap out messages to people anywhere in



the world. Then I saw that a number of other people also had their laptops open and were obviously doing the same thing, but with a much more nonchalant six OK, so this is already old news to some people. Still, I felt like a member of the global IT club.

The next morning. I watched the sun rise over the African plains from 34 000 feet. The video monitor at my scat showed we were flying over Zambia, south of Lusaka, above a vast grassland spotted here and there with trees. Later, as we began our descent, an appoundement played over the intercom

Welcome to Johannesburg, Gauteng Province. South Africa, the commercial and technology hub of Africa. We offer a great climate, an educated workforce, a business-friendly regulatory environment and the best technology and communications infrastructure on the continent." Wow, I

thought, this could be interesting. I got off the plane, showed my pas port and explained to customs officials that I would be staying for a week to attend a technology conference. They

waved me through quickly, and I came into the main terminal. It was a large, two-story space crowded with people and dominated by big advertisements promotine the two main South African mobile phone companies. Both had offices right there so you could rent a cell phone to use during your stay in fo'burg.

A driver met me at the airport and took me to my hotel downtown. It was about a 30-minute trip, and I took in the scene as we drove. The climate (SA is south of the equator, so it's summer now), the busy expressways and the landscape reminded me a lot of South ern California. The city is bristling with traffic, office parks and new residential developments. My driver said the economy is nicking un-

I think of myself as pretty worldly but I didn't expect this. This isn't the Africa I grew up seeing to movies and on TV. It's one thing to talk about a slobal economy enabled by informa tion and communications technology, but it's a real eve-opener to accually experience it. Next month, I'll rell. you about what this Chicago Yankee learned at the South African IT conference. O 51329

WANT OUR OPINION?

More columnists and links to archives of previous columns are on our Web sile.

Indiana University's Problems Not Severe

G OPAL K. KAPUR may have tion systems, but he needs a reresher course in basic journals He based his Nov. 29 Computer world column about Indiana fileversity ("One Born Every Minute," Quicklank 506221 on assumptions that were just plain wrong, Had he cted someone with knowledge of the saturation here at indistric University, he would have been able the new system and business procto base his column on facts rather server and their up anticonte foun. than fiction. He would have known that the problems we have expenenced with IU's student informat

system implementation were not nearly as severe as he described. He also would have known that the implementation was done in careful and well-planned phases over a five-wear period. There was nothing

slipshod or haphazard about it. The one area where we exper enced serious complications was in loans processing for some students, mainly on one carripus. Once grablems occurred, the offices worked with the project team experts and consultants to solve them. We accommodated stude by delaying payment dates and giving short-term loans for fiving expenser. No shadent was prevented from attending class because of the problem. The financial aid offices are now more knowledgeable abou

problems in the future. Norma Helland Associate vice president, University Information Systems, Indiana University, Bloomington

Data and Life Cycles

MACHINE CALL management isn't a new thing Records managers have been doing it for 30-plus years, and it

wesn't achieved in a day. You need to build a case for it obtain buy-in. understand the business process. get a grasp of the use patterns and be receptive to those patierns changing ("Business Execs Must Learn to Embrace L.M.* QuickLink 503941 People in IT think the idea

expensive forms of data manage ment and push that as the benefit of ILM. What they laid to resize is that as business changes and more and stimmy/libyahoo.com more data is gathered and general ed, business doesn't know what's

less important yet. And business neonle want ranid access to all of it Take, for example, human resources data. The systems capture it in a sequential tashion so that part of Employee 1234's data is on Platter 1, part of it on Platter 3, part of it on Platter 9, etc. When you need to see Employee 1234's electronic nersonnel life all of the nietters with

letters@computerworkl.com his history need to be mounted. even if he worked at the company for 35 years and retired 10 years.

ago, and you need to be able to

search across them for all of the data at the name time Time and again, I've seen IT get caught in the trap of thinking it can samply use a time-based algorithm

for determining when the value of data has diminuhed. Laurence J. Medina Records and information management professional Danville, Colif.

COMPUTERWORLD welcomes comments from its readers. Letters will be edited for brevity and clanty They should be addressed to Jame Eckle, letters editor, Computerworld, PO Box 9171, 1 Speen Street, Framingham, Mass. 01701 Fax: (505) 879-4643, E-mail:

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Fast-Moving Development Architected rapid application de-velopment, or ARAD, tools are helping many users to reap the benefits of code reuse, including lower costs and improved produc

riviry Page 26

SECURITY MANAGER'S JOURNAL Enough! I Quit!

C.I. Kelly wanted to make a difference in her work environment, even in the face of an abusive and out-of-control boss. In the end, though, she decided she had done as much as she possibly could. Page 30

percomputing Goes Global

Consultant Mark Willoughby says that the evolution of super computing will lead to some unexsected and strange virtual alliances.

ares for a busiss trip, he charges up the main battery in his notebook compater, removes the CD-ROM drive and fills the bay with a second battery, and

ks a third one in his bag. That's sufficient for long trips, says Saltzman, systems manager at United Parcel Service Inc. in Atlanta. Like many users, Saltzman wants to

be able to work continuously during extended flights, but he also wants to use power-hungry features such as wireless networking while traveling These changing usage patterns and the demand for faster notebooks have created a power gap between what batteries can provide and what systems can deliver.

While ootebooks cor to benefit from Moore's Law, batteries haven't kent up. The future of disconnected com

puting depends on century-old electrochemical technology that has improved

only gradually. It's not that batteries haven't gotten better, "If we were to put today's battery on a notebook built five years ago, you'd get eight hours of battery life," says Carl Pinto, director of product development for notebooks at Toshiba Corp. in Irvine, Calif. The

demanding more power, he says. tery technology has been relatively small, "In the last

100 years, there

MOBILE COMPUT



Battery technology hasn't kept up with twin demands of taking up less space and powering more features in disconnected computing devices. By Robert L. Mitchell



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Continued from page 21 batteries. It's just not exciting stuff," says Rob Enderle, an analyst at Enderle

Group in San Jose.

Rus battery life has risen to become one of the top three pure has certeral for mote before the per here pure has certeral for mote book computers, say while Trainto, their mobile technology strategies at a treet Copy, which produces the period to the period of the period to the period to

AFTERMARKET BATTERIES: Don't Get Burned

When it comes to Striven lies halteries, users which chosens the cheused option can liberarily with chorens the cheused option can liberarily with barried, use Can Beatlon, it is made at Find and Can Beatlon, it is considered to the control option can be promptly about but require steel revised any promptly about but require steel revised promptly cannot be remarkativing process. The lactices investigate product in the mendativing process. The lactices investigate beautiful to the repulsations con an advantage of the steel revised to the control option con an advantage of the product control option con an advantage of the product control option (as the product of the product when the product of the pro

ing projected operating times from two to three hours into the five hour range, which is still short of the all day bartiery users wint. bight hours of five mult frequire flot wait hours (Wf) of power, but the best available bottery to knology lithrum non—delivers less than sidWh.

gue Absteres Lus Visorth of features, through the end of the dec ade while keeping consumption at the flbWb. mark Bitt that will leave a power gap. "I be other side of the equation has become equally important? How do we get the control of the end of the control of the Venders have recently invalenced in the problem, but power ment and pricure research and development dillers have pound into fuseled research rother than into base battery designet. The direction of investment oway from

nother than moto base battery designs. The direction of investment away from batteries has countributed to today's prover garp, controls bounds Sadovas, a professor of materials regulated association of the designs of the design of the designs of the design of the design

necebooks have improved battery efficiency 20% to 30%, but actual operating times remain under three hours. That's not always enough when people bring such computers to meetings, says Scott. "If you cut true back-to-back one-

"If you get two back to-back oneboar meetings and you're making any significant use of the machine at all, you can start running into problems. And three meetings in a row — forget it," he says, "We need eagher place hours of use, and that's a struggle with a lot of the devices we have weday." For Sultram, the bottery issue goes

the devices we have today."

For Saltzman, the bottery issue goes beyond notebooks. He manages 200,000 battery powered devices at Lamonus, weo president and genesal manager at Visionaline in Southblee Trans. Wherein miles.

an external lithium ion polymer battery pack for

ute with a more furnish obosphate technology

notebooks that replaces the traditional cobalt or-

that he says elementes the risk. The trade-off. The

hatteries are more expensive, and power decisty

is about 20% lower than cobalt-based lithium ion

Improper use can also Impoer battery explo-

sons says Donald Sadoway a battery expert and

professor of materials engineering at MIT Batteries

off batteries may look the same but mourn a lower

current charge. When the user puts it on the charg-

er Toom. The thing blows up Why? Because the

hattery was made more cheecky and maybe should

have charged at a lower rate," Sadoway says. The

same result can occur if a different power brick is

require a specific charging current. Cheap knock

STRETCHING BATTERY LIFE

UPS, including radio-enabled handhelds used in delivery trucks. The bateries don't charge well in hot or cold weather, so charging must be done at the dispatching location. And because drivers are on the most for up to 10 hours. UPS must use buger burreles, which adds weight to the devices. Sultrman usual tiles uses hisher engent.

densities to reduce weight. Extending the Batteries

Literatum for Description reads in Instery manufacturers have made in the property of the control of the transfer of the control of the control of have during the control of the laced airshe carry Southons Lab, a unit of Princeton, N.J. based Panasonic Technologies inc. Over the pass five years, Inflaum for batteries have replaced nichel cadmium (Nici.2) and say, in mobile computing devices. Lithium is not force a principle of Lithium is not force a higher volumetric Lithium is not force as higher volumetric.

energy density. It also doesn't suffer from the memory effects that shorten the life span of NiCd botteries. And it's environmentally superior to NiCd, which faces a gradual phaseout be-

cause cadmium is toxic, making it a hazard in the waste stream. While nickel-based chemistry has reached its capacity limit, lithium to continues to make small gains. In re-

reached its capacity limit, lithium ion continues to make small gains. In recent years, capacity has increased at a rate of about 10% per year, while competition has reduced prices at 10% to 20% annually. Kelty says.

Although lithium ion hasn't yet hit the theoretical capacity limit, the hidustry consensus is that future pairs will be unlikely to close the power gap. That conclusion has spurred renewed interest in battery research.

mores in nonery research.

Companies such as Mississungs.

Ontario-hased Electrowaya Inc. use

lithium ion polymer, which uses a gellike electrolyte. Despite early promise,
the technology remains more expen-

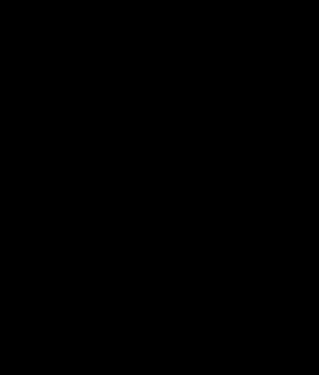
attached to the wrong device – a mistake that's all too easy to make, since many power sources for different devices are plug compatible. "If you have effected power funds, label them and don't must them." He stay.

Lithum inn batteries are also more likely to explode when high current is drawn, says Sadeway. "If you want to be reckless, straw high center and change the battery at a very high rate," he says. But that's a design consideration for device manulactures that's out of the use's bands.

Stones of batteres actually exploding are enapparated, says Kurl Refty, director of bourness, development at Phanasomic Energy Solutions Labi In some cases, the heat and pressure created by the runsway chemical reaction can case the casing to burst open. "What it really means is some smokes owen of!" he says. "What happened was these was a thermal event inside the case that caused the temperature to not and the pressure to not to the point where it beautiful the case. The maneric are expected to expens and modular in the art that creates furners. The consumer sees the feature and concludes that if exploited? But the batteries can leak and design equationant. These is really a safety issue optin now with batteries, specifically, some of the ones coming.

Given the cost of mobile computing equipment and the lack that proces of lithium on batteries continue to decline, the best course of action to day may be to stick with name brand replacements. "Take the financial hit, buy the brand name the OEM-recommented if you by to cut costs, you're playing with selety." Sedowing stays.

out of China," Kelly says





Power delivered by lithout our ballion pack *Who required for eight hour operation of natioback PC



Continued from page 21 batteries. It's just not exciting stuff." says Rob Enderle, an analyst at Enderle Group in San Jose.

But battery life has risen to become one of the top three purchase criteria for notebook computers, says Mike Trainor, chief mobile technology stra gist at Intel Corp., which produces logic sards and chip sets used by the majority of notebook makers, "IT shops want more performance, more wireless and slimmer systems, which cuts down the

room for batteries," he says, Intel's Centrino mobile chip set has reduced power consumption, extending projected operating times from two to three hours into the five-hour range, which is still short of the all-day battery users want. Fight hours of life would reonire 100 watt hours (Wh) of power but the best available battery technology lithium ion - delivers less than 60Wb.

Trainor is confident that Intel can 'eive Moore's Law's worth of features" through the end of the decade while keeping consumption at the 100Wh mark. But that still leaves a power gap. The other side of the equation has become equally important: How do we get

more energy into the system?" he says. Vendors have recently awakened to the problem, but government and private research and development dollars have poured into fuel-cell research rather than into basic battery design The direction of investment away from batteries has contributed to today's power cap, contends Donald Sadoway, a professor of materials engineering at MIT. "They put all of their eggs in one basket. Here we are, seven or eight years later, and fuel-cell applications are

nowhere near to realization," he says. Users are feeling the pain. Tony Scott, chief technology officer at General Motors Corp., says Centrino-based notebooks have improved buttery efficiency 20% to 30%, but actual operating

times remain under three bours. That's not always enough when people bring such computers to meetings, says Scott. "If you get two back-to-back one-

hour meetings and you're making any significant use of the machine at all, you can start running into problems And three meetings in a row - forget it," he says, "We need eight-plus hours of use, and that's a struggle with a lot of the devices we have today."

For Saltzman, the battery issue goes beyond notebooks. He manages 200,000 battery-powered devices at

STRETCHING BATTERY LIFE

UPS, including radio-enabled handenergy density. It also doesn't suffer helds used in delivery trucks. The batteries don't charge well in hot or cold weather, so charging must be done at the dispatching location. And because which faces a gradual phaseout bedrivers are on the road for up to 10 hazard in the waste stream. hours. UPS must use bigger batteries which adds weight to the devices. Saltz-

man would like to see higher energy densities to reduce weight. **Extending the Batteries**

Battery manufacturers have made incremental improvements in lithium ion batteries since they were introduced in the early '90s, says Kurt Kelty. director of business development at Panasonic Energy Solutions Lab, a unit of Princeton, N.J.-based Panasonic Technologies Inc. Over the past five years, lithium ion batteries have replaced nickel cadmium (NiCd) and nickel metal hydride (NiMH) technolory in mobile computing devices. Lithium ion offers a higher volumetric

from the memory effects that shorten the life span of NiCd batteries. And it's environmentally superior to NiCd, cause cadmium is toxic, making it a

While nickel-based chemistry has reached its capacity limit, lithium ion continues to make small gains. In recent years, capacity has increased at a rate of about 10% per year, while com-

petition has reduced prices at 10% to 20% annually. Kelty says. Although lithium ion hasn't yet hit the theoretical capacity limit, the industry consensus is that future gains

will be unlikely to close the power gap. That conclusion has spurred renewed interest in battery research. Companies such as Mississauga, Ontario-based Electrovava Inc. use

lithium ion polymez, which uses a gellike electrolyte. Despite early promise. the technology remains more expen-

AFTERMARKET BATTERIES: Letter Don't Get Burned

nd, an analyst at Fro

noreus, vice president and general manager at ence live in Southlake, Teass, Volence makes an external lithrum ron polymer bettery pack for notebooks that replaces the traditional cobell oride with a more benign phosphate techno that he says eliminates the risk. The trade-off. The

is about 20% lower than cobalt-based lithium ion Improper use can also trigger builtery exp sions, says Donald Sadoway, a bettery expert and professor of mate re a specific charging current. Cheep knock-atteries may look the same but require a lower current charge. When the user puts it on the obor, "boom, the thing blows up. Why? Because

attached to the wrong device - a mistake that's all too easy to make, since many power sources for different devices are plug-compatible. "If you have different power bricks, label them and don't

Litham ion betteries are also more likely to expices when high current is drawn, says Sedoway. "If you went to be reckless, draw high current and harge the believy at a very high rate," he says. But ther's a design consideration for device moncharers that's out of the user's hands. Stories of betteries actually exploding are ex-

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But the batteries can leak and damage equip-ment. There is really a safety issue right now wi balteries, specifically some of the ones coming out of China," Kelly says. and the fact that prices of lithium ion batte

continue to decline, the best course of action to day may be to stick with name-board replacements. Take the financial hit, buy the brand name, the OEM-rec



sive than lithium ion and hasn't im-

proved energy density. But it does have

be formed into flat shapes that fit into

ed to cylindrical cell designs.

Pionics Co. in Shina, Iapan, has

shown a prototype battery with an en-

ergy density of 600Wh/liter Most of today's lithium ion batteries fall into

the 200Wh to 250Wh/liter range, says

Atakan Ozbek, principal analyst at ABI

Research in Oyster Bay, N.Y. Still other

vendors are working on designs based

Even the traditional alkaline battery

may get back into the game. With zinc-

based alkaline batteries, it has been dif-

ficult to get more than 10 recharge cy-

cles, says Robert Zeiler, president of

Zinc Matrix Power Inc. in Santa Bar-

bara, Calif. The company has replaced

the alkaline buttery's traditional elec-

trolyte solution with a polymer-based

on materials such as lithium sulphur

and lithium phosphate

one advantage: Polymer-based cells can

small devices, while lithium ion is limit-

2005 Can deliver high levels of power at a very low and and recharges matchin.

Supports high-decharge rates well, delivers more power for its also than MCG; no memory effort issues.

manney-effect leases. Some cycle life as \$100.1.
Some characteristics as lithium ion but can be melifed into very thin chapes.
Discharge rate is less whose not in use: 0.3% per menth vs. 10% for Blaten loss and 30% for Blate.
Long rate times, which can be extended by reballing the defenders.

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tory life if bettery inc't maintained property. Casimiars betteries
conferencestrally unfriently and likely to be phased out.

Relatively expensive. Volatile chemistry requires special sal mechanisms and strict manufacturing centrals.

Limited to short 50 charge cycles vs. 300 to 500 for lithaushood betterton.

formula that extends the number of recharge cycles. "We can get hundreds of cycles," with an energy density of 600 Wb/litte; be says. The company has

an agreement with Intel and says it will have a commercial notebook battery in production by 2006.

While Intel has invested in the more promising companies, Trainor is realisticabout early claims. "What we have not seen is anyone manufacture these

cells in high volume," he says. Fuel-Cell Frenzy

For the long term, most vendors have pinned their futures on fuel cells. Govermment and private investments in fuel-cell research have been substantal, and more than 60 companies are working on designs to power electronics, says lim Balcom, president and CEO of PolyPuel linc. in Mountain View. Calif.

View, Calif.

Fuel cells combine a fuel such as bydrogen or methanol with oxygen in an electrochemical reaction. The most popular design, the direct methanol cell uses methanol or a methanol or a methanol water mix. Part cells show promise in delivering dramatically higher energy densities, and the ability to swap out feel cartridges could guarantee a virtually endliess power supply As little as the could be compared to the could be compared to the could be could be compared to the could be consulted to the could be compared to the could be consulted to the country of the could be consulted to the country of the could be consulted to the country of the country

operating officer at MTI MicroFuel Cells Inc. in Munny NY. But the technology faces several Anallengas. Fuel cell systems are complex, requiring an engine, or "stack" tirry pumps, sensors and other electronic lex a wenting system: and a fact tank (see diagram below). Squeezing them into something the size of a notebook battery that can be sold at a reasonable price and that works reliably is a major engineering hurst.

Fuel cells are also relatively inefficient — turning 70% of the energy they produce into waste heat vs. 10% for hatteries — which is a problem for notebook designers, who are already facing thermal challenges. And the systems vent small amounts of carbon dioxide and water vapor.

Fuel cells also don't respond well to sudden spikes in power demand, so early designs, such as Intermer Technologies Corp.'s fuel-cell-powered IP3 radio frequency identification (RFID) reader prototype, are coupled with a lithium ion battery. The IP3 fuel cell, an MT1 design, trickle-charges the battery in addition to directly powering the RFID reader. The unit runs for 30 hours on a 55cc fuel cartridge compared with about 10 hours for a traditional buttery. Other vendors are experimenting with ultracapacitors, solid-state devices that can deliver short bursts of supplemental power to handle peak loads

"Totabla's big investment is in fuel click, says Plints, Orabiah, Hassha Id, and NEC, Corp. here shown prototype "wap byg" designs that state to a on notebook or handhed, with internal units to fallow the real products wond units to fallow the real products wond come until standard fair miss and cartridge designs in needed for broad acceptance, and regulators still need to approve its author by and use, particularly on airplants.

Oracle of the particularly on airplants, or airplants, or

agoncy's recent but on butane lighters. ABI Research's Orbek says fuel-cell makers have made significant strides in the past six mosths, reducing the package size by 50% while surpassing the energy density of lichtum ion in test units. Early fuel-cell power packa will ship this year and next, ramping up of ew thousand units in 2007. "Then it's few thousand units in 2007." Then it's

going to be millions by 2010," he says. In the interim, users will have to make do by dimming screens and using the power-saving features available to them. Those features can help, says GMt Scott.

But power-saving designs alone aren't going to close the power gap, be adds. "Batteries have been the boat anchor in terms of real progress." O 51428

TAKING CHARGE Filling the Energy Sap: Superapacion can improve

battery efficiency by providing short bursts of power QuickLink 61432 Buffery Februar: An Mill researcher talks about

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BATTERY



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FAST-MOVING

Architected rapid application development tools increase productivity and attention to husiness needs.

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Architected rapid application devel terns that can serve as building blocks to generate common paris of an application a user interface or a set of business rules, for example. Architects and senior designers can build their on n templates, which can then be reused by programmers to automati cally generate large chunks of code

Because the tools often penerate as much in 80% of rothe code developers can add business logic and complete applications faster than they can with traditional development methods, acconding to industry analysts and users. Lompuware Corp., IRM and Computer Associates International Inc. are among a growing number of vendors creating and among inc ARAD tends.

Locus Systems Inc., a Markham, Ontario-based application developer and systems integrator, started using Compowanc's Optimalt ARAD tool to keep its operations competitive when faced with outsourcing pressures, says Richard Blas. Locus general manager. This is like outsourcing internal-

ly," Blassays, "It's like lowing Bungalore in a box - it gives us that much of a competitive advantage So for Locus has used Optimall to generate 65% to 70% of the code for three applications, saving developers

reducing the number of bugs round in first iteration testing. Blais add The Advanced Development Conter of Austin has used CA's Allhusweed in

to help it streamline application de-

opment and maintenance for its chents. says Breau Schwiening, the center's All of the minor details of the procourselt architecture and designing

and dome less programming In addition, the tool has eased the process of changing applications, allowing users to exploit existing EL in vestments, Schwiening says, "If they decide they want to Websenable part of an application. I can generate part of this application or all of it to run in a Web server environment," he says "The next time I revenerate business logic, I don't lose that HTMI look and

teel that I have built." According to a recent Cartner Inc study. ARAD tools will be mindatory for numestream companies moving to hold service oriented applications. The study noted that ARAD tools in much as 15 times what it had been when traditional development approaches were used.

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cline and integrated developments as a ronne nt (IDE) approaches, says Mike Burba, Compananc's Optimal program manager. It's designed to take the object oriented analysis of modeling tools to a breber level of abstraction and has

a transformation engine that maps the husmess model into application frame works, he says "Like an IDF, it allows you to get into that application that is generated and ... edit code," Burba says, "ARAD

tools know how to preserve the changes on existing orde"

Benefiting the Business

Royal Bank of Canada has used Opto mall to more closely link development to business issues, such as customer service, says David Hewick, group manager for application architecture at the Toronto-based bank It has used the tool in a rilot to build a Web-based 121 F application, and Hewick estimates that developers can gain 29% to 30% productivity compared with using a traditional 12FF approach. "It was an apportunity to interest the development life cycle, reduce

costs and bring consistency," Hewick

AT A GLANCE

ARAD Tools

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says. "The modeling environment institutionalizes a lot of the underlying architecture. It generates a lot of the code we don't have to write, to test

That translates into time developers can spend on business issues. HBM is resumping its approach to ARAD by focusing on its new Rational Software Modeler modeling tool and Retional Software Architect design and development software that were innounced in October. The tools are designed to replace the Rational Rapid Developer tool, which IBM will contin ar to support but no longer market.

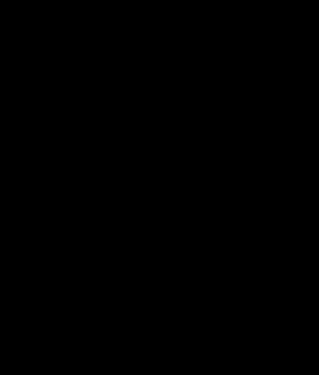
CA also unnounced a new release of Allbusion Flex that uses patterns to omate development for Windows. 12FE and IBM i5-OS environments New features include the ability to cre are business logic components that can be exposed as Web services or compo-

nents to .Net-based applications. Devid Kells, president of Upside Reearch Inc. in Newton, Mass, says his clients have reported significant benefits from using ARAD tools, including lower development time and costs.

"These tools are certainly light-years about of the old client/server, modeldriven development tools that were typically too combenance too difficult to get the reuse out of . . . and generally just didn't deliver on the ROL" he says. But he notes that using the tools requires developers to adopt a new

mind-set when building applications *Developers have almost a cowboytype mentality - to code quickly and get on with the next thing," Kelly says. To gain the benefits, you have to have a little bit of discipline - put the effort into finding the right patterns and right architecture and ensure the developers and architects are using the tools and processes consistently, O 51559





FAST-MOVING

Architected rapid application development tools increase productivity and attention to business needs. By Heather Havenstein

environs for boosting developer productivity are gaining popularity with companies seeking to arreamline increasing ly complex projects by homing in on business requirements rather than technical

specifications Architected rapid application development (ARAD) software uses patterns that can serve as building blocks to generate common parts of an appliration - a user interface or a set of ness rules, for example. Architects and senior designers can build their own templates, which can then be reused by programmers to automati

cally generate large chunks of code. Because the tools often generate as much as 80% of native code, developers can add business logic and comple applications faster than they can with traditional development methods, acconding to industry analysts and users. Compuware Corp., IBM and Computer Associates International Inc. are among a growing number of vendors creating and improving ARAD tools.

Locus Systems Inc., a Markham, Ontario-based application developer and systems integrator, started using Companyage's Optimall ARAD rook to keep its operations competitive when faced with outsourcing pressures, says Richard Blais, Locus general manager. This ... is like outsourcing internal-

by" Blais says, "It's like having Bangalove in a box - it gives us that much of spetitive advantage." So far Locus has used Optimall to enerate 65% to 70% of the code for

three applications, saving developers several hours of work and substantially reducing the number of bugs found in first-iteration testing, Blais adds The Advanced Development Center

of Austin has used CA's AllFusion Piex to belo it streamline application develorment and maintenance for its clients. says Bryan Schwiening, the center's general manager of services and sales. "All of the minor details of the pro-

gram are generated," he says. "You find yourself architecting and designing and doing less programming." In addition, the tool has eased the process of changing applications, allowing users to exploit existing IT investments, Schwiening says. "If they decide they want to Web-enable part of an application, I can generate part of

this application or all of it to run in a Web server environment," be says. The next time I regenerate business logic, I don't lose that HTML look and feel that I have built."

According to a receot Gartner Inc. study. ARAD tools will be mandatory for mainstream companies moving to build service-oriented applications. The study noted that ARAD tools improved return on investment to as much as 15 times what it had been when traditional development approaches were used.

ARAD Technologies

"It's generating the portion of the code that the programmer doesn't have expertise in - code that the middleware or technical architect knows. says Michael Blechar, a Gartner analyst and co-author of the report. "Reliability

and quality of the code is much, much blober than I it is with! hand-coding." In addition to productivity gains, users reported substantially lowerthan-expected tonl acquisition and training costs, the study says. Most organizations reported recouping

the investment after one year. Optimal Straddles traditional modcling and integrated development environment (IDE) approaches, says Mike Burba, Compuware's Optimal! program manager. It's designed to take the obiect-oriented analysis of modeling tools to a higher level of abstraction and has

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processes consistently." O 51550



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FFORE BUILDING a Walkway through a garden, col-lege campus or office park, an experienced landscaper lege campus or office park, carefully studies where people walk naturally to over the best routes between pop-

Hewlett-Packard Co. researcher Bernardo Huberman and his team at the Systems Research Center at HP Labs are using a similar strategy to study how e-mail flows through organ rations. The idea is to uncover natural "communities of interest" that can be tapped to make smarter decisions and more accurate business predictions.

Using an algorithm that measures betweeness centrality" - a measure of the prominence of individuals in a social network - Huberman and his team classified hundreds of thousands of e-mail messages by how they traveled within certain HP divisions. They ered that day-to-day work was often accomplished by self-selected teams of people who don't show up as a group on a formal organization chart. They theorized that members of the groups actually made up de facto

sions would outperform those of the formal experts. To prove the theory, Huberman and his collaborators had 15 HP managers distributed around the globe place bets on projected monthly revesue and profit figures for an HP division. The research team developed an algorithm to account for variations in the manag attitudes toward risk. As an incentive, Huberman also provided the manag with a small amount of cash that

teams of experts whose business deci-

would increase or decrease, depending on the accuracy of their predictions. **Accurate Predictions**

In the end, the group of managers co sistently predicted the financial outcomes more accurately than an expe financial software tool the division had been using to forecast the figures.

Huberman says the test could also be conducted by pitting the informal group against a formal group of deci-sion-makers, and the results would be the same. The reason is that the infor mation used to predict a business outcome is aggregated from the best possible sources, even though their high level of knowledge may not be reflect-ed in their job titles.

He also notes that only nominal inves are needed to persuade undeclassed experts to do their best. "Just g up a little bit of money — less \$300 - makes people behave dif-



OF THEM ALL?

Social software uncovers the true experts. BY JULIA KING

ferently," Huberman says, Moreover, money isn't necessarily a requirement. "People in companies are concerned about their status. If they predict well, call them 'dukes' or 'barons.' There are ways to enhance people's status other an giving them financial compensa-

Brian Whitworth, a reearcher and assistant profes sor of information systems at the New Jersey Institute of Technology in Newark, has

written several academic papers on social computing. He says Huberman's ideas and work leverage the social environment of the Internet.

People have traditionally viewed the Internet as a physical system only, when it's really a physical and social

system because the physical network connects people, Whitworth says. Huberman is mediating the interac-tions between people linked over the Internet, Whitworth says. He believes this is destined to be the decade of social computing, where all software is at least "group aware," as it is un-

der Huberman's model, if not Indeed, Huberman says be has a notion of ultimately "building an enterprise knowl-

edge navigator" that would allow organizations to harvest all of the know edge in people's heads, "and not just at's in documents that are stored on a server somewhere," Communities of interest and expertise could be established not just by studying e-mail

flows, but also by studying the kinds of documents people access and the Web sites they visit To that end. Huberman's team has

developed a peer-to-peer system that automatically creates profiles of users based on those activities and stores them on their PCs. This way, users can reach so-called undeclared experts.

Undeclared Experts

For example, if someone in an organization wants to know of a sood restaurant in Beijing, the system will automatically send that user's query to only those emplower whose profiles fit the request Likely candidates could include people whose travel vouchers show trips to China or whose human resources

records show Chinese language skills "This way, knowledge gets declared automatically," Huberman explains. Some people call it social software. What we're trying to do is harness the power of the implicit. The idea that guides our work is to go and uncover all that implicit knowledge in order to

gain an understanding and then to use it in interesting ways." For starters, be says, corpora could use the technique to understand

how work really gets done as opposed to how a company is formally organized. Information from various communities of interest could also be used to supplement known experts' knowledge. For example, medical researchers

might be able to predict disease outbreaks sooner by studying the purchase patterns of certain medicines at Huberman acknowledges that there are issues of privacy that must be re-

solved in order for his techniques to be applied. However, within a single organization, all e-mail generally belongs to the organization, which is why his techniques will most likely be used within companies, at least initially Huberman says HP has applied for patents on all of the algorithms devel-oped as part of his social software research. How they will surface in the marketplace remains to be seen, how ever, Besides beloing HP manage its internal business, they could also end up as services for sale con

the next two years or so. The one big remaining question, says Huberman, is, "Would you pay to use this?" © 51572







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Enough! I Quit!

Our security manager can handle viruses and hackers, but an abusive boss is another story. By C.J. Kelly

AVE YOU EVER felt that no matter what you maid or did, it didn't matter? In the security manager's position. I've been writing about for the past few months, I've tried multiple ways of changing the dynamics of a very difficult situation. I relied on my "personal power"; a big smile; endless patience; a trum-haued, collaborative as

proach; technical abilities; project management skills—you know, all the professional stuff. But in the end, none of it mat-

tered, and I resigned.

I've never used postitional or political power to get things done. I just don't admire those approaches. If you have to pull rank to get people to do things, then you've overlooked a very important part of misnaging people.

What does a person like me do when reporting to someone who values positional and political power above all else? I

I spent more time than I thought was appropriate trying to understand what my was trying to accom plish (other than the stated goals and objectives) and how she was maneuvering throug the corporate system. I knew that if I didn't understand what she was really after. I would be stised for something that didn't go down the way she wanted it to. My manager had a tendency to lose her temper; her red face, wild hand gesturing and desk pounding are funny only in retrospect.

It was clear that a top executive was my manager's political connection, and the nature

of that connection stirred a lot of speculation. My manager certainly want discreet about it: the dropped his name often. Everyone knew that if you crossed swords with bet, the executive would learn about that evening and hand down an edict the following day.

that evening and hand down an edict the following day. There were no debates; she didn't value other people's input. She even said to me, "If everyone will just do what I tell them

to do, everything will be fine." Well, OK, I've said that to my kids, but a boss isn't a more.

Some structions

were so budierous, I didn't know whether to argue or burst out Issaghing. I took to writing down everything she said in case she challenged me on something. One day she wanted things done one way, and the sext day she wanted them done another way, and she could never remember which we had agreed upon. Here's an example of her managing prowess. We had an

which we had agreed upon. Here's an example of her managing prowess. We had an earthquake the other day. My manager, who was in charge of disaster recovery, came out of her office screaming for everyone to get under their desks. I looked at the modular furniture in my cubcic and

Some situations were so ludicrous, I didn't know whether to argue or burst out laughing.

thought better of it. My manager was furious that we weren't doing as she said, but she was so frightened that she ran buck into her office and hid under the desk. At that moment, I was afraid for the company if a real disaster should occur. She exhibited similarly out-of-control behavior during a bomb scare.

TECHNOLOGY

Hoping for Change I didn't quit until I had done what I could to try to change the situation. I identified two key executives to discuss the

issues with. The first, the most senior HR executive, was fairly new and most likely unfettered as yet by political loyalties. In a short meeting, I explained that I wanted to get my manager some help, maybe through the employee assistance program. I described the emotional tirades that she was prone to and asked the HR executive to assess the situation personally. I made it clear that I didn't want my manager's job, but eather was concerned for my colleagues and the company's

into the master.

A couple of months later, things were worse, and I met with the HR succurity again. This time the said my complaints weren't about behavior that the had to report, like sexual harassment. Dead end. Next up was my manager's manager, who is at the Clevel. He's an approachable gue the said whom I've how one of the case of the case. I laid everything out for him was conversations.

success. She agreed to look

for him. my conversations with HR, examples of the craziness that we experienced daily, low morale in the group (a result of being ripped to shreds during quarterly reviews), my manager's obvious lack of management skills, her technical chelesaness (which made it difficult to educate her enough so she could make wise decisions), her political connection with his colleagues.

I figured I had nothing to lose. I was prepared to be escorted from the building, though I was hoping this executive had enough clout so that our department could

report to someone else. But nothing happened, I had a follow-up conversation a month later to find out if the executive had come up with any ideas. His one suggestion was to have his direct reports go through a 500-digre review process as soon as possible, He told me that the executive staff never sees the side of her that I had described. I told him they never would except in an extreme circumstance.

view process as soon as possible. He told me that the executive staff never sees the side of heer that I had described. I told him they never would except in an extreme circumstance. I realized then that he either was politically and positionally powerless or had decided that If I didn't like things. I could leave on my own terms, absolving him of having to do anything.

I read a story recently about a state official who escaped impeachment after two former employees had ratted on her for using state resources and equipment for her political campaign. A reporter asked the official how she was going

the oticul now ne was going to change her management style in response to accusations that she was verbally and mentally abusive to the former employees. Her confident response was that she wasn't going to change her style at all. The employees were just disgrantled, the official said, and

it had nothing to do with her.

Am I disgrunted? Nope. I
just moved on. I love my work
and enloy working with talented people. Security professionals are in demand, expecially those with multiple
technical certifications and
advanced degrees. I had three
offers within two weeks, and
I'm in the process of decidings.

where I'll land next.
But the people who worked
for me, who have also suffered
abusive behavior, are hopeful
that my highly visible retignation will inspire the organizational change that needs to
happen. Hope savinus cernal, 8

WHAT DO YOU THINK? The week's journal is written by a real security manager, "C.J. Kelly," whose same and employer have been disquise for obvious reasons. Contact her at

tor coverus reasons. Comisor ner in macquely@yahos.com, or join the decusien in our locum: Quebil.link a1590 To find a complete archive of our Security Missions's Journals, go online to

SECURITY LOG

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HP Banks on

In Howlett-Packard Co., amounted that it expects Bankur-based severus for account for more than half of its business-critical server sales by the and of 2005 and for 70% of those sales in 2006. The company made the forecast last mounted that the company made the forecast tel Corp. had agreed to hire IPT laterium design team. IPT and letel cr-developed Harvier.

Dialpad Launches VolP Calling Service

• Buland Communications be, in Mightra, Call. Amounted that postSA, a voice-rever-IP calling postSA, a voice-rever-IP calling voice. Dalayad Edit, asset can make an unimised ramber of a cost of \$15.09 per menth for comsumers and \$25.09 per month for small-business corer. Casteriors will review a threatment designer and a Dalayad dipPlone. The communication of the communication of the which herigan begun between 1647 and the traditional phone stream. Can be reviewed to the comlete users make continued phone that the communication of the comlete users make continued phone. MARK WILLOUGHBY

Supercomputing Goes Global

IZE MATTERS IN SUPERCOMPUTERS because size translates into speed. And supercomputers are all about speed. The quest for the fastest computer to discover new drugs, crack ciphertext or model global weather and nuclear reactions has set a lot of records in a short time.

Supercomputers are defined toosely by IDC as systems that cost more than \$1 million and are used in very-large-scale numerical and data-intensive applications. Today, their power is measured in trillions of floating-point operations per

second, or TFLOPS.
The current world record for computing speed is 70.72 TFLOPS, posted in November by 18M's Blue-Gene'l system, which is destined for the U.S. Department of Energy's Lawrence Livermore National Laboratory, But supercomputers run as much on the testosterone of competition as on DC power, so the lasest per-

formance benchmark isn't likely to list very long. Claiming bragging rights as the world's fastest computer has been a 20-year game of technical leapfrog, involving almost as many companies as have been delissed by Nasday this year. The context spans the globe. There's considerable national pride invested in the outset to build a forser machine to dis-

cover that next substonuic particle lutriking iost beyond the bandwidth of today's champ. An architectural shift took place in supercomputing in the 1990a, and that shift was the background for a legendary wager. Gordon Bell, principal designer at the venerable and defunct Digital Equipment Corp., bet Danny Hills that the world's fasters machine at the end of



1995 would be a supercomputer with fewer than 100 processors. Bell was betting against the incoverable march of technology, swings that the bags could not be worked out of massively parallel machines before the deadline. Hillis, a professor in MIT's artificial intelligence lab and a founder of gone-but-not-forpotten Thinking Ma-forpotten Thinking Ma-

a founder of gone-but-notforgotten Thinking Maehines Corp., was an early proponent of massively parallel computing. Smart money backed Hillis. Hillis loss the bet. He was slightly abead of his time because massive parallelism is more of a software problem

cause massive parallelism is more of a software problem than a hardware problem. Software developments rarely keep pace with hardware breakthroughs.

Back then, supercomputers were measured in millions of FLOPS. Since then, even supercomputers with performance or in the billions of FLOPS have been relepated to the dusabin of computing history, alongside Digital and Thinking Machines. The new IBM BlucGene/L world champ has 16.348 dual-root processors grouped in 16 elusters, with each procestor linked to use of five internal commu-

nications buses

The evolution of supercomputers is like that of factory power in the Industrial Age. The first large factories were served by big, expensive, centralized power plants driving overhead belts and pulleys that powered every device in the factory—a lot of hardware. Early superfactory—a lot of hardware. computer architects likewise struggled to advance their machines, using hardware from a few big, expensive, specialized processors.

This centralized factory power architecture gradually gave way to more and more decentralized power located closer to the users: steam gave way to electricity. The supercomputers in use when Bell and Hillis were macking wits were a milestone on that evolutionary path to distributed, or massively parallel, hardware with a different type of fuel. Ultimately, little electric motors were

powering factory devices in the hands of each and every worker, with thousands of power tools distributed along the production path. The historic wager between Bell and Hillis could be made again today for the year 2010. The future of supercomparing lies in greater scale in the number of processors used. The world's FLIDES champion at the end of the decade could well be using more than I million processors.

The world's most powerful supercomputer likely will revolve into a grid architecture of loosely coupled systems harmonical objectable to a single task across a global network. A grid holds the most promise for delivering the biggest and baddest theoretical supercomputing architecture imaginable. a virtual multiple-instruction/multiple-data, or MIMD, global supercomputer.

Grid architectures rely more on specialized software than on fast hardware, and they're attracting lots of research. Users in the interconnected world of any of the state of the state of the state of pain, isning a global supercomputing, pain, isning a global supercomputing, grid to self their unused compute cycles to the highest blidder, Imagine American tern selling FLOPS from video game or MF3 players to Asian weapons designers, or vice veras, It ilhe taking electric current from a windmill and making the state of the state of the state of the body care to make a wager? © 201000

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Brain Overload

The stress of work can cause your higher brain functions to shut down says renowned psychiatrist Edward M. Hallowell. He offers some tips on how to keep those neurons firing. Page 37



Bangalore's runaway success as an IT outsourcing destination has overloaded the city's infrastructure, resulting in traffic nightmares and other woes. Plus, a new book helps IT managers build privacy into their systems from the outset. Page 38

OPINION Growing New IT Managers

If you're thinking of hiring your next generation of IT managers. think again, says Paul Glen, Growing them yourself is a much better investment. Page 40



GAIL HOLMBERG has to deliver more than a working system when she deploys a new initiative. "It's not a success for the company if that's all

that happens," says Holmberg, CIO at Bally Total Fitness Holding Corp. in Chicago. Workers have to actually use the new product to improve how they do their day-to-day jobs. Sounds simple, but IT executives know that

managing change is a challenge. Staffers are use ally quite comfortable with the status quo and of ten initially see change as more disruptive than

"Even when change is very positive, it's a challenging thing for people to go from how they do things today to what they'll be doing tomorrow," says Mary C. Finlay, deputy CIO at Partners

HealthCare System Inc. in Boston. Such challenges shouldn't stop any org

from going ahead with changes, however, Change can be successfully managed, and the following steps can help you move your business and your people to where they need to be.

no a clear vision of what you want to achie "IT leaders often have difficulty ensuring that their visions are clear, specific and framed from multiple perspectives so they can reach all the various people they need to reach," says Sheila J. Smith, a senior consultant at Ouellette & Associates Consulting Inc. in Bed-

ford, N.H. As a positive example, Smith points to one IT partment that, when assessing how it could imove support for users, determined what the sup Continued on page 36



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Emotions **MATTER**

WHETHER you're upgrading hardware throughout your organization or changing user software, people's rissotance to change will be one of the biggest obstacles to

success.
"Change is fundamentally about people's behaviors and talk about complex systems!" says Douglas Mitaesian, director of IT at Poly-Foam International. IT managers (seding change should be prepared to

encounter a range of emotions among users – from anger and denial to excrement – and learn how to deal

with them. Soccaseful leaders discuss the potential emotional reactions updated and let their datals have what they might recounter, sage Should. Sorth, a serior constant at Outsites & Associates Consultanty. When the winder with employed both the sack choreasts and controlled rig gone functions, escapeters their gave tabilities a great machine, escaped to the property of the sack choreast part of tabilities a security of the sack of

Executives should also acknowledge the loss that people lest when change takes place. "We forget that people lest will go of the rest things they ris learning brind in a change," Smith says. She has soon pharmaceutical companies, health care companies and banks hid "luments" when a stall underpose significant change.

tical companies, health care companies and before fixed "lunnatis" when a staff undergoes significant change, "You're often ending relationships of people who are working together," she explains, "so finding some way to allow them to and it in a very memorable way allows

- May K Pratt

people to move past the ending."

Continued from page 33

port process should look like in the future and how that differed from its current setup. Then the department articulated that evolution to everyone who would be affected by the change.

Build alliances. Seek out leaders within other departments to champion changes. "If we can get those [business] people on our side, we'll get everything to work," says. Angelo Mazzocco, vice president and CIO at The

Dispatch Printing Co. in Columbus, Ohio.

Mazzecco. who oversees the IT departments of 14 affiliate companies with more than 2,000 employees, holds monthly meetings with senior IT and business managers so be can notify affies when changes are proposed.

Lead by example. That means you have to be an early adapter to change, says William McQuiston, Cito at Truman Medical Centery Inc. in Kansas Giy, Mu. "So if someone is having problems with the change, I can say. 'Yes, it was a struggle for me, and I did this, and it helped." The says.

Communicate, and then overcommunicate.

Meetings, newsletters, posters, e-mails and informal exchanges bely you explain the changes that he ahead, why they're needed and what they'll mean

"We need to explain how this positively affects you, how this helps you do your job hetter," says Johanna Roshman, president of Rothman Consulting Group Inc. in Arlington, Mass.

nanna Rosinian, pressacin or commun Consuming Group Inc. in Arlington, Mass. Remember, too that "everything you do is communication," Rothman says. Your actions say at least as much as your words.

Educate workers about how the charge will impose their period to the product of the control of t

the systems full value. The assumption is if people know how to manage the next 11 system is then people will know how to navigate their daily workflow. Holmberg asys, But hard so not necessfully true. Tallot training programs to teach workers how to use the new technology to do their nobe better.

Divide the change into digoslible pieces and then take time to implement them. "A toy to making a transaction is to take very small and other crace steeps" says Douglas Milacelian, director of Ta 1 doly from International Inc., a Fremont, Ohio based manufacturer with 500 employees at 25 sites.

Mikedun worked with one company whose fiveperson IT-staff sear Irom supporting a couple binadered people to 1,200 in a few months because of organizational elaboration flow months because of organizational elaboration flow processes that needed overhands and their inflemented them one by one over two years. The company also added from new IT workers to keep the days-to-day operations going while the larger organizational changes took place.

Roog it sirrols. IT leaders tend to add "complexity through too much process," says. Scott Richards. Clo at Emergency Medical Associates Alpha Physicians Resources in Livingston. N. He says that he prefers an agid evelopers toewho from the process of the prefers and developers toewho from the process of the process of

changes that will go with them.
"Go right to the user. Put the user with the people who can get [the change] into play," Richards says, pointing out that his projects take an average of you to three months from active crasseement to

deployment.
Richards freely arknowledges that his approach is
different than that taken by others. But, he says,
"change management can't be imposing, It can't be
so structured that people are more concerned about
the formalities" than about actually making the transition successfully.

Look to past experiences and colleagues for guidance. Examine your previous successes and failures to determine how you can improve change manusement. One llette's Smith saws.

Ask, "Did we get enough buy-m?" "How well did we communicate" and "How did we sustain change?" Mazzocco also recommends tapping collegates in other industries for advice, which is something he does at a CiO forum he started six years ago. "It's helped us in implementing major initiatives," he says

Sutan change by proofing the right tools. When Finlay implemented a new resource field the continuous memory and prover immagement tool at Partners [Endithelian et al., 18]. The summing Afferward, when had following sessions where workers could ask questions on how to integrate the tool into their days tood piles. She also set up phone, and e-mail support for workers who load must into or encountered problems, and to the plant of the proof to the plant of the proofing of the plant of the plant

to work on the new system

Solid teoflook survey notices the management of the wind and the solid s

Acknowledge progress to keep up momentum.

Karten renambers one musurance company whose IT department underwent a
major reconjunistration. Afterward, the IT
manager kicked off meetings by having staffers talk
about positive unteractions with new internal customers, good encounters with new departments or
examples of amount adjustments.

Make the necessary commitment. We dry, and idoing more with less these days but when it comes to change. Maxes according to the project by freeing them from their idays to day dunes. Homberg takes that advice one step further. If your organization lacks the commitment and curamen to see the change through, she

says, don't even begin. © 51175

Pratt is a freelance writer in Waltham, Mass. You can contact her at markmary@mindspring.com.

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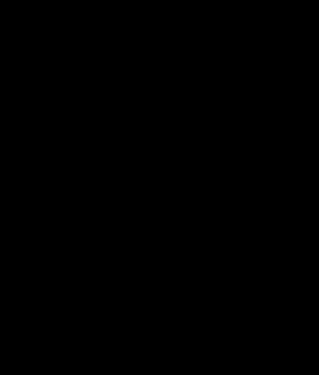
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Remember, too, that "everything you do is communication," Rothman says. Your actions say at least as much as your words.

Efacals werkers about how the change will improve that purferance. When Bully roulled on an ence system for contact management and guest registration, the pilot program showed that the training taught workers how to use the system but not necessarily how to use it to further sales, Hollewing says. So the IT department partnered with the training department to develop a much richer training program that tungth workers

the system's full value.

"The assumption is if people know how to manage
the Inew ITI system, then people will know how to
navigate their daily workflow," Holmberg says. But
that's not necessarily true. Tailor training programs
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questions or encountered problems after they started
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10 Solici heefhack. Survey workers who are affected by a change and talk with them directly. "Managemost shouldn't just say, I have an open-door policy." The reality is most people work just of Post of Associates, a training and consulting firm in Eustholius.

Acknowledge progress to leave up mementum.

Karten remembers one insurance charge pay whose IT department underwent a major reorganization. Afterward, the IT manager ticked off meetings by having staffers also bout positive interactions with new internal customers, good encounters with new departments or examples of smooth adjustments.

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Pratt is o freekance writer in Waltham, Mass. You can contact her at markmary@mindspring.com.

erioac

The stress of modern work life may be literally driving us to distraction. Here's what you can do about it.

The much to do, too little time, too few resources. If you're feeling that the harder you work the behinder you get, you're not alone. You and your distracted, impatient, irritable IT co-workers may be suffering from a previously unrecognized neurological phenomenon called attention deficit trait. In the January issue of the Harvard Business Review, psy-chiatrist Edward M. Hallowell, renowned for his work on attention deficit disorder, describes the inner frenzy affecting so many in today's IT workplace. The au founder of the Hallowell Center for Cognitive and Emotional Health in Sudbury, Mass, talked with Computerworld's Kathleen Melymuka about what

What is attention deficit trait? It's a severe case of modern life. It's my term for what happens to the brain when it becomes overloaded with information, obl ations and more data points than it can keep up with. You start to resemble someone with actual attention deficit disorder — distractibility, impulsivity, impatience, restlessness, irritability. In an attempt to get everything done, you become less and less efficient, and that leads to underachievement and deteriorating performance even as you're trying to improve.

brings on ADT and how you can control it.

How is this different from attention deficit disorder? True ADD is a genetically transmitted brain trait. This one is purely environmentally produced - simply a function of overload.

Can you give me an example of what might bring on ADT in an IT sevirorment? You start off the day looking at e-mail. One includes a crisis that you need to take care of. As you start to take care of it, your super sor knocks on the door with another crisis. Just then, you get a call from home asking you to take care of three things. You bump into a colleague and she complains about how you treated her the day before and there you go. You're dealing with more than the brain is equipped to handle.

What happens? Instead of operating efficiently, the brain goes into survival mode, and you try to brine closure to these things. You tell your colleague to grow up. You ask your spouse why she can't understand that you've trying to get some work done. You tell your supervisor - curtly - that you'll get back to him when you can. You shoot yourself in the foot because you're desperate and not thinking clearly. You're losing your flexibility, your sense of humor,

your capacity to prioritize and organize. You beco TAKING CONTROL

impulsive and much less effective interpersonally and cognitively than you would otherwise be.

is this something that might happen one day but not the next? Absolutely, But it's like chronic stress: Once you have it many days in row, you do walk in with it, and you almost create it. In a funny way, you become addicted to it. You think, "This [ADT] is work, and if it's not happening, I'm not working." That way, it becomes self-perpetuating. You fall into the trap of not working smarter, just working harder.

You say fear is at the base of ADT, Can you explain? Basically, as you're having to do more and more, you come to be in a minipanic: You can't get it done; you'll put in a slipshod performance: you'll lose your job. Your brain is point into red alert. In a fear-powerned state. as you try to do better, you actually do worse because fear shanghais the frontal lobe nerve cells you need to be effective and diverts them into the service of fear. You waste all this mental energy imagining all these fearful things.

As an IT manager, I have only a limited degree of central or my work preferenced. What can I do to lesses the chance of developing ADT? Nobody can control their work environment. We're all subject to fate. But identify what you can control and focus on that, even if it's just the space on your desk. Instead of entertaining scenes of doom and gloom, which you can't contro engage the problem-solving part of your brain and solve a problem. Try to rebuke the primitive side that keeps jumping up with a fantasy of terror and fear and doom

You write about mind-clearing tricks that can help when you start feeling overwhelmed. Can you mention a fow? A quick burst of exercise is a wonderful one. Instead of reaching for coffee or carbohydrates, do 25 jumping jacks. Another is to do a simple rote task that involves the frontal lobes. Write the beginning of a memo - not the hard part. Just writing the beginning will recruit the frontal lobe neurons and trick you into not paying attention to the fear-based part of your brain. Also, never worry alone. Commiserate with a colleague. Social isolation is where toxic thinking flourishes.

What should my company do to keep ADT at key? It's not

about buying people more-powerful BlackBerries. Emotion is the key. The more you can create a trusting work environment, the less people have to deal with fear, the great disabler. Create conditions of mutual respect and trust, which cause the brain to solve roblems instead of getting paranoid. Give people remission to say, "Enough!" instead of telling them to suck it up and try harder.

Some people will say you want to coddle workers who she just suck it up and do their jobs. How would you respond? If people could suck it up and it would work, I would advocate that. But sucking it up is counte You reach a point in the performance/anxiety curve where [work] starts to deteriorate. When you're operating on fumes, you go into fear/survival mode and you lose those qualities managers want. The bottom line is you can bring out a whip, but it doesn't work.

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Best Bits

THE BOOK: Privacy: M ispers and IT Profes-is Should Know. J.C. Carmon (Add ley, 2005). inally, there's a privacy book for () managers instead of

policy works. This isn't the ect privacy book, but it has useful sections toking privacy at Web sites and providing vel access controls for detabases so that only certain employees can see the most sensitive information on a need-to-know basis.

A key message is that privacy needs to be saled into IT applications from the outset - yes, just like security - and the book provides a detailed methodology for exactly how to do that. The trick will be overcoming resistance from application de-velopment teams who fear this will make projects take longer. (Advocates could point out what requlatory fines and press exposure will do to the com-pany's stock price.) The author also urges compa-

ples: Don't collect more data on people than you really need. But with today's emphasis on CPM and tembrie-size data warehouses. I'm afraid that advice will be ignored. - Mitch Betts

Things to Ponder

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Buzzword elect: Dornolly Ltd., an IT cores firm in Toronto, is using the term Metanet to describe the interlocking group of verious networking technologies, such as public and private packet-and circuit switched networks, and terrestral and satelite-based wireless systems. It's bigger than

w What do CIOs like most about their jobs? Variety, solving business problems and working with impossive technology were the top three answers in a survey of 100 CIOs conducted by Mentil Lynch & Co. in New York. What they really hate is budgeting.

III One of the megatrends over the next five years will be "microcommerce," says Gertner Inc.

Think of Apple Computer Inc.'s (Tunes online musac store, where songs cost 99 cents, and the fact that consumers have spent millions of dollars on cell phone mig tones, which can be downloaded for a few dollars each, O 51418



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Tell me about year workforce. We have almost 400 FTEs in our shop and 100 contractors from various provides. Ou use of contractors provides us the ability to quickly ramp up and down as needed. Ten percent of the total head count is offishous loon't envision us movings allege procentage of our workforce offshore. Ten percent is the max.

What challenges are yes facing? We all have an aging workforce. Thirty-three percent of our entire organization is set to

ratine within 10 years.

We're making attempts to try to capture some of that knowledge in knowledge management systems. Then there is the challenge of managing talent when people turn 55 and become fine agents.

What are the top skills you're leeking to find? The types of skills we need are de-

termined just before projects are about to start. Some of them are hot skills like. Net. But the harder part is developing and mantaining skills around business process opinmization – taking out inefficiencies from opreations and reducing costs. I don't their there? The a CVD position in 10 years, it will become a cheff process officer.

What will be your big workforce challenges in 2005? We're constantly evaluating whether we want to roll contractors into FTEs. Do we increase the employer count and reduce suppliers? Also, do we get the right shills at the right market rates?

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Success Breeds Problems for Bangalore

As a location for IT outsourcing, B lore, India, is still the place to be. "N's far from past its prime," says Eugene Kublaney, a vice president at neofT inc an offshere outses San Ramon, Calif. Bangalore still has the best concentration of IT talent in indis, beautiful high-tech busi and good weather, he says.

But the boom in offshore o is also putting strains on the infra ture in Bangalore, which faces stiff on from other cities in India S cing business. The No. 1 comnt about Banquiore is that drivers e hours long traffic jams on ch ate roads. That's followed by



eds to be uppraded or repli

ment, or the city won't be able to sus-tain its growth," Kublanov says.

A neofT study of the best cities in ladia for outsourcing ranks Bangaio second, trailing the city of Burgaon. Pune, Hyderabad and Chernoi are nipping at Bangelore's heels, according to the study.

Perhaps the biggest challenge for decurcing firms in Bangalore is the prinflation of IT salaries, which were up 15% in 2004, Kublanov says. For outsourcing firms, "It's boo

ing very expansive to do business in Sangalore, by India's standards," he "Their fees aren't going up 15%. so their margins have to give," which is why Bengalore glants such as Wipro Ltd. and Infosys Technologies Ltd. are starting to set up additional opera

- Mitch Ratte

tions elsewhere.

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The IT Economy

M Analysis peg this year's IT spend-ing growth at a healthy 5% to 8%. but "a few trends will weigh down most companies and leave little for the innovative IT purchases that drive competitive value," says Torri Pisello, CEO of Alinean LLC in Orien do. Mandatory purchases and hisden "brees," such as security and PC upprades and spending on Serwere-Oxion Act completice, will consume much of the IT budget but add little regi value to the business. Paello says, Plus, studow spending outside the IT department's control will continue to take up 10% to 20% of a company's overall IT expend tures. Pisello says the key to "extracting meaningful value" will be reducing the total cost of ownership of required curchases and thereby freeing up lands for innovative o ects such as Web services, mobile

auting, business intelligence

and code frequency identifi Buving Intentions

DC researchers say their lodes of sworks (T demand (below) shows that user spending mos eve dropped a little, but buyers are what builters in fact, in a med materbergo. IT basees are more tic then vendors are these

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JORS MOST RESISTANT TO

OUTSOURCING IN 2005

· Archdects (network, data)

Internet/intranet storage)

. Security (auditing forensics

· Enterprise data management

· Business analysts, business

Project managers/leaders

· Internations

management)

datamodelers

technologists

· Process modelers

Network managers

CRM professionals



Tell me about your workforce. We have almost 400 FTEs mour shap and 100 contractors from various providers. Our use of contractors provides us the ability to percent of the total head count is offshore I don't envision us moving a large percentannel our workforce offshore. Ten nervent

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Following a prolonged period of decline, premium pay field specifically to IT skills is starting to increase as a result of widespread retention concerns, offshoring disappointments and an increase in competition for IT consulting talent, according to a new study published by Foote Partners LLC in New Canazan, Conn. The study of 45,000 IT workers and 1,860. North American and European employers found that although pay for 150 certified and noncertified skills drooped an average 4.2% and 0.5% respectively in 2004, paylor networking skills increased 6% in the past year. Pay rose 4,5% for messaging tirroupwere skills and nearly 4% for skills related to applications development and programming lanowners. Other Indines.

2005 STATS

HOT SKILLS AND CERTIFICATIONS

- . Storage/SAN/NAS (FMC Brocade and Medas Sectioning as
- Security (CISSP CISM CISA and SANS/SMC continuous) ■ Networking (Cisco, VolP and
- storage technologies) Web services/SQA (XML, Net. WebSohere and SOMP technolo
 - gres MCSD Net certification) ■ Messaging (MCSE and MCSA certifications with messurers
- specializations) Linux/open-source
- Web enabled analytics management applications
- Wreless skills Rapid application development/
- extreme programming SOURCE "IT INSIDER-COMPENSATION BENCHMARKS AND EMPLOYMENT TRENDS "
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WORTH THE EFFORT

A survey of 612 workers by Office Team, a Robert Half International Inc. staffing service found that most employees think annual performance reviews are beneficial

How valuable is the feedback you recei

Not valuable at all 8% No answer 8% Not very valuable: 7%



AVOID THESE REVIEW PITFALLS Dune Domewor executive director of Office Team nated that perference annews are most productive when managers avoid these common pitfalls.

- Serving It all up. Don't wat until the performance review to share complin and constructive criticism. Offer feedback throughout the year. Winning R. Precere in advance for individual meetings with employees. Evaluate

staff based on the same standards. Failing to consult others. If your team members regularly work with people in

other departments, tap these people for additional leedback prior to the meeting. Keeping employees in the dark. Nothing in performance reviews should come

as a major surprise to employees. Let them know what will be discussed, how much time to sat aside for the meetings and how you would like them to prepare. ng through. Male sure you and your empl

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------In 2005, which of the ing business needs will

be the most important for you IT organization to support?

Three business quarters from new, what do you expe for the health of your industry?

Much worse

SASS NATION of both Assessment of (Some percentages may not your 100 because of rounding.) are formers December to Carrence Mary, November 2004

-----roles. Give them a chance to interact

Growing New IT Managers

HERE WILL YOUR next generation of IT managers come from? For most senior IT leaders, the answer is that they will hire them. They plan to dip into that deep pool of talent in the outside world to reel in just the right sort of people to drive their organizations into the future.

Given all the concerns about shrinking IT departments and the offshoring of IT iobs, there should be enough experienced managers to go around, right? Well, perhaps, but perhaps not. The baby boom generation of managers is rapidly approaching retirement are. And they are probably looking forward to it, given the storm clouds on the borizon for IT

Not that we should look upon managers as a commodity. But as with grain, if everyone's buying and no one is growing, acquisition may oot be as easy as some expect. It

always seems to come back to that supply-and-demand curve from microeconomics class. So perhaps a little growing may be a good way to ensure a stable future for your organization. Here are a few ideas for initiating a focused approach to growing new

managers Identify your pool of high-potential candidates, Inquire among your project mansizers directors users and others about who on the staff has management po-

tential. Keep this informal and quiet. Offer opportunities to explore the management role. Make a conscious effort to find small ways for the likely candidates to experiment with managerial

with customers directly. Have one person take the lead on a three-person task. Ask one of them to suggest a new process for something. This gives them a chance to learn and was an opportunity to observe. Don't make these things big public events, just small parts of the job. By the time a new manager is appointed, he should have had the chance to dabble in many sress of the job

Don't expect 100% conversion. Not everyone you identify will turn out to have real ability, and some of those with ability may lack desire.

Not everyone wants to be a manager. and you have to respect that, Make sure that there's a viable rollback op-

tion. Too many times. I've seen star performers leave companies because they tried out management and learned that they hated it. Once branded with the manager moniker, they felt resented by their "success," wishing to return to a technical role but fearful of losing status. For them, the only way out was to leave the company, taking with them all their valuable experionce and expertise. You've got to devise an approach that allows people to

return to technical roles without fear of public humiliation. Recognize stages in the transformation

Growing managers are just that: growing. The process of becoming is slow and arduous, requiring time and nurturing. You can monitor your protégés' progress through a series of typical stages as they become true managers. (Of course, some get stuck along the way and stop progressing.) Roughly, these are the stages:

Stage 1: Managing tasks. New managers are typically focused on the things they need their staffs to get done. They concentrate primarily on the activities and products to the exclusion

of all else Stage 2: Managing relationships. After a while, managers begin to recognize that their roles extend beyond things, and they begin to manage relationships, mostly with external people.

They realize their own and their group's interdependence and begin to manage it actively Stage 3: Managing people who do tasks. Eventually, new managers begin to

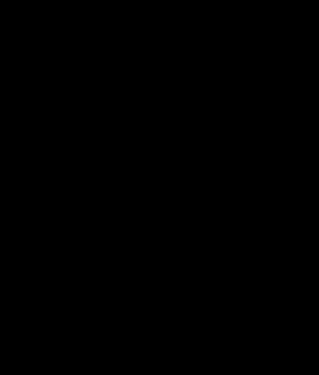
loosen their grips on tasks and begin to focus on managing the people who do the tasks, recognizing their own dependence on their staff and developing trust in their abilities and judg-

Stage 4: Managing people who accomplish goals. Finally, managers step even farther away from the details of the work and focus on setting direction, context and goals, allowing their people to turn those priorities into reality.

Developing new managers should be considered an important part of every IT leader's role. A modest investment of time and money in future managers. can result in the best return on investment you'll find in your entire budget. O 51355

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PAUL GLEN

Growing New IT Managers

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Continued from page I OneWorld

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ROBERT ROBINSON, **BUSINESS SYSTEMS SUPERVISOR** DURS INDUSTRIES

and Exchange Commission, Asyst had to appear before the Nasdaq Listing Qualifications Panel on Dec. 15. Although no action has yet been taken by Nasdao, "the matter remains

open, according to a company Asyst runs its own ERP system separate from the Japanese unit. That system has performed without trouble. ASI functions as an independent

company and has to report its own finances, Swenson said. Asyst paid \$65.7 million in Inte 2002 for a 51% stake in ASI. Japen-based Shinko Electric Co, owns the remaining 49%.

In-house Problems ASI had relied on a third-party IT services provider until last lune, when the unit brought

the function in-house with the implementation of the ERP

underestimate That implementation, which the importance was apparently still under way and cost of planwhen the company's second ning and consult-

97% of PeopleSoft's shares and | that the \$10.3 billion transaction had officially closed. Thus, Oracle can avoid having to take the matter directly to PeopleSoft's shareholders. which could have extended the closing by more than a month.

Pledoes of Support In a statement, Oracle reiterated that it "anticipates adopting and continuing PeopleSoft's current support policy." One IBM and Microsoft Corp. to

cle also pledged to work with support their databases, "as long as a working relationship can be maintained." Oracle also said it intends to continue supporting the EnterpriseOne and World software products running on the iSeries, "although IBM cooperation will

be required." Many OneWorld XE customers have expressed concern about whether Oracle will hold to the PeopleSoft quarter ended on Sept. 25, led

to the reporting delays.

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plan to halt OneWorld XE support next month, said John Matelski, a board member of Quest, an independent user group for LD. Edwards customers and deputy CIO for the city of Orlando. "Extension of support on XE is

huge," he said. Not only is extended One-World XE support crucial, but so is continued support for the older, green-screen World applications, said William Gabby, North American operations manager at agribusines Cargill Inc.'s Global Financial Solutions business unit in

Minnetonka, Minn. Gabby said he's skeptical. based on Oracle's decision to stop actively marketing PeopleSoft applications in favor of the Oracle software. That move "leaves the current in stalled base concerned about

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ment and marketing of World products as a new system and not as a cash cow, said Dave Hyzy, director of IT at Benderson Development Co., a real estate developer in Buffale. N.Y. "Lacking that, I'd like to see Oracle announce the sale of World software, lock. stock and barrel to someone cise," be said. @ 51790

ine on ERP projects. In the company's quarterly earnings call on Dec. 21, Asyst Chief Pinancial Officer Robert Nikl attributed the specific causes to errors in table mapping and inaccurate posting

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wish the ACI staff the turn. around team "had to retrace The confinancial records for the quarter," version Swenson said. process was During the turnaround not managed

JOHN SWENSON. COMPANY SPOKESMAN

process. Asyst also found that "material accounting errors* ASYST TECHNOLOGIES made by personnel at ASL its own first-quarter numbers were untrustworthy, requiring a restatement, the company said.

For instance, ASI had understated the cost of the products it had sold, leading to the revision of its first-quarter net loss to \$2.3 million, up from \$900,000. Niki said this change stemmed from how

the company reported costs such as freight expenses that weren't related to a specific project. The full costs of resolving

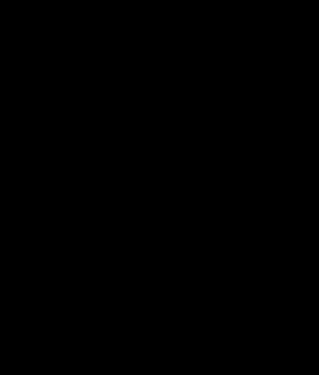
the ERP and financial-reporting issues, including legal fees. could be as high as \$2 million, the company said. "We believe the ERP issues

have been addressed, and we'll be able to do our financial reports in a timely manner." Swenson said. The secondouarter 10-O form has been

filed, and Asyst said it believes it's now in compliance with Nesday's listing requirements. O51774

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DMPANY SPOKESMAN

LRANK HAYES * FRANKLY SPEAKING

Ahoy There, User

ERE'S AN IDEA TO START THE NEW YEAR: Treat your users like sailors. Yeah, really. Right now, the U.S. Navy is putting the finishing touches on its new appropriate-use policy for IT [QuickLink 51628]. This policy will apply to about 900,000 users, including military personnel, civilian employees and contractors. When it goes into effect this spring, it will cover everything from PCs and networks to cell phones and fax machines, in places ranging from battle zones to bureaucrats' offices.

In other words, the Navy's policy will cover more users, with more diversity, in more different situations than you'll ever need to worry about. Now that's someplace to look for a model.

Better still, the new Navy policy shows signs of being a remarkably sane model for what users should do with FT, at least the way it's described by Robert I Carey the Navy's deputy CIO for policy and integration.

The main principle is that if it interferes with Navy operations, users shouldn't do it. And if it's illegal or a violation of regulations

or contract requirements, users shouldn't do it. Otherwise, it's probably OK. Bet your appropriate-use policy can't be sum-

marized that simply, can it? Here's another key feature of the Navy's policy: According to Carey, personal use of Navy IT equipment is good for morale. Sending personal e-mail, surfing the Web and shopping online during breaks are all fine - as long as they

don't hog bandwidth or otherwise interfere with Navy operations. So if the sailors, Marines and civilians who use Navy-issued IT gear make sure the Navy's work gets done, personal use isn't just OK -

it's actually a good thing. That's a truly elegant core policy. Sure, by the time it's officially issued it will probably be spun out into endless pages of milspec jaryon. But because it's clear and simple at its core, this appropriate-use

policy will likely work anyway. That's fine for the Navy, But can you treat your users like sailors? Answer: Maybe.

After all, your users probably aren't military personnel. That means precious few of them are being shot at. It also means their sense of organizational mission is different. Your users aren't focused on defending their nation; they're more likely concerned with defending their budgets, jobs and retirement plans. This isn't an adventure - it's a job.

So if your company's culture is such that you really can't trust users to stay focused on the corporate mission, then a working principle like "Don't do it if it interferes with business" probably won't do much good. (If your users are that unfocused and untrustworthy, maybe you should be looking for a new place to work, not

just a better appropriate-use policy.) But chances are, most of your users stay focused on business most of the time. So having a simple, common-sense principle at the core of your acceptable-use policy will work fine. Instead of long lists of what is and isn't accept-

able - lists you're forever lengthening to close new loopholes - you'll have a few simple tests for non-work-related IT use, is it illegal? Is it on company time? Does it interfere with business? Those are tests that business-side managers

can understand. Even your CEO can grasp them. Users who require micromanagement won't like this approach, but everyone else will get it. They can even enforce it them-

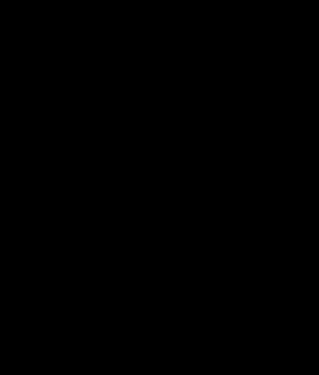
selves, so you don't have to play policy cop That's the other advantage of a Navy-style appropriate-use policy: It's not us or them, IT vs. users. It's all about staying focused on what's

important to the business. So we might as well try treating our users like sailors. After all, when it comes to using IT, we're all in the same boat. O 51767

New Year, Same Old Users User calls help deak to complain that her pass

asst stopped working. Do you have a hint ent the system? Inch asks. User does - her daughter's age. Fight How old is she? User: "Seven." Fight How old was she when you entered the password? User "Six Rut she ked had her birthday!





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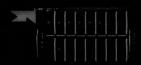
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